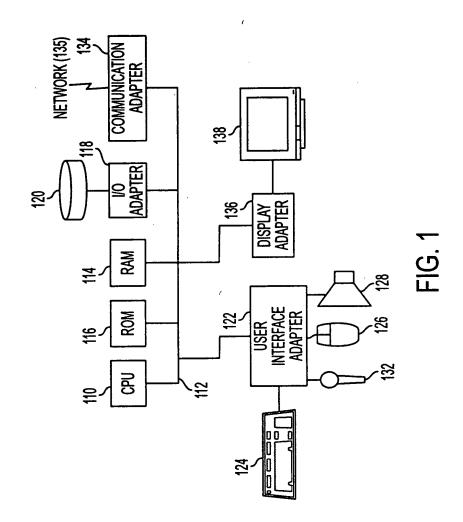
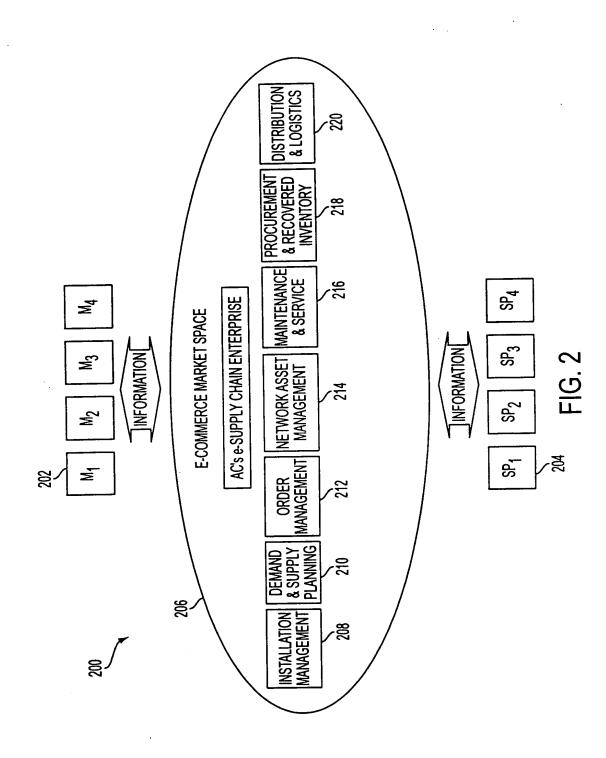


f









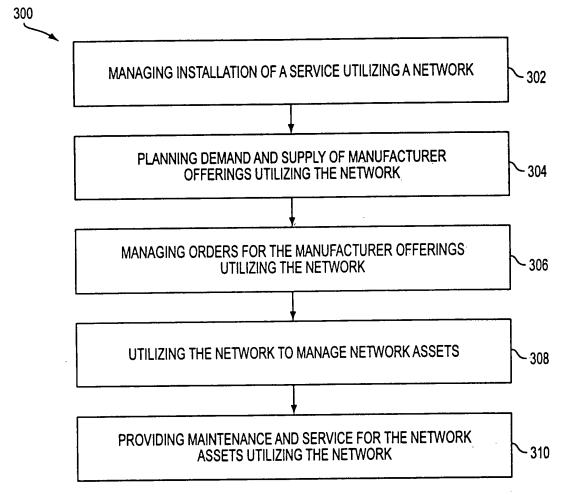


FIG. 3



	99	• /	408	410	412	414	416
			INSTALLATION MANAGEMENT	DEMAND & SUPPLY PLANNING	ORDER MANAGEMENT	NETWORK ASSET MANAGEMENT	MAINTENANCE AND SERVICE
		· FASTER TIME TO SITE INTEGRATION	ds				
405	REVENUE					gs	gs]
	ENHANCEMENT	· RAPID INTEGRATION OF ACQUISITION	SS	යි		හි	
		FASTER ORDER TO CASH			M		
		· DUPLICATION REDUCTION	W dS	SP M	SP		×
`		DISTRIBUTION FACILITY RATIONALIZATION		Şb W			SP
404	REDUCTION	PROCUREMENT RATIONALIZATION	SP	ВS			
		· SIMPLIFIED PROCESSES			SP	S	
		· TRANSPORTATION RATIONALIZATION	SP				
907	CAPITAL	· REDUCED INVENTORIES	SP M	SP			
004 /	REDUCTION	· MANUFACTURING CAPACITY UTILIZATION		SP	W		
				i			

FIG. 4

FIG. 5

100

웧



(28 }	PROVIDER			ļ
	216~	MAINTENANCE AND SERVICE			PROACTIVE MANAGEMENT SCHEDULING AND PLANNING INCREASED INCREASED VISIRI ITY			PLANNING TOOL NETWORK TRACKING INTERFACE	
	214	NETWORK ASSET MANAGEMENT	HARMONIZATION		olife cycle Management ASSET TRACKING GROWTH CAPACITY TECHNOLOGY	PRODUCT LAUNCH/ROLLOUT PTECHNOLOGY SHARING		□ASSET TRACKING TOOL D□LIFE CYCLE MANAGEMENT MODEL □ROLL-OUT PLANNING TOOL	
eSUPPLY MARKET SPACE	212~	ORDER MANAGEMENT	END TO END PROCESS VISIBILITY AND HARMONIZATION		o INCREASED VISIBILITY TRACKING AND STATUS OORDER CAPTURE STANDARDIZATION/	WG ORY		oelectronic Sasset Tracorde Capture Tool URDER Capture Tool URDER FLOW Manageme ORDER FLOW MODEL TOOL UNETWORK PLANNING TO OPERATIONS LINK	FIG. 6
Se	210~	DEMAND & SUPPLY PLANNING	END TO END PRO		COLLABORATIVE FORECASTING COLLABORATIVE NETWORK ROLL-OUT AND PLANNING	COORDINATION COORDINATION COOLLABORATIVE CAPACITY PLANNING PREVERSE INVENTORY MANAGEMENT TECHNOLOGY SHARING		SUPPLY CHAIN PLANNING TOOL PRODUCTION PLANNING TOOL PROLL-OUT PLANNING TOOL PLANNING TOOL	
	208	INSTALLATION MANAGEMENT		NEW CAPABILITIES	COLLABORATIVE MANAGEMENT MANAGEMENT MILESTONE BASED PROJECT PLANNING VISIBILITY HARDWARE		MAIN ENABLERS	COLLABORATIVE PLANNING TOOL NEW INSTALLATION PROCESSES	206
	<i>></i>				202	MANUFACTURER			



RECEIVING INFORMATION FROM AT LEAST ONE SERVICE
PROVIDER UTILIZING A NETWORK, WHEREIN THE INFORMATION OF THE
AT LEAST ONE SERVICE PROVIDER INCLUDES INFORMATION
RELATING TO THE SERVICE PROVIDED BY THE SERVICE PROVIDER

RECEIVING INFORMATION FROM AT LEAST ONE MANUFACTURER
UTILIZING THE NETWORK, WHEREIN THE INFORMATION OF THE
MANUFACTURER INCLUDES INFORMATION RELATING TO
MANUFACTURER OFFERINGS

MATCHING THE SERVICE TO THE MANUFACTURER OFFERINGS

706

FIG. 7

UTILIZING THE SERVICE AND MANUFACTURER OFFERINGS

INFORMATION TO MANAGE INSTALLATIONS

- 708



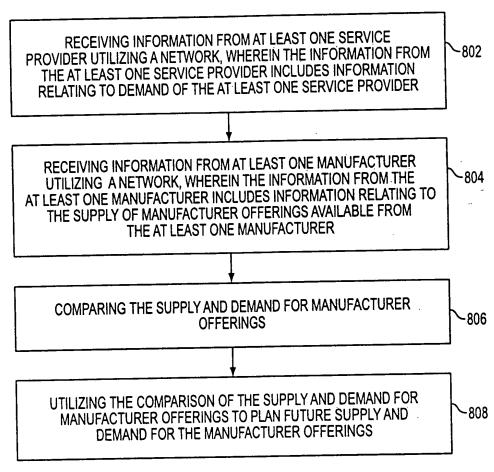


FIG. 8



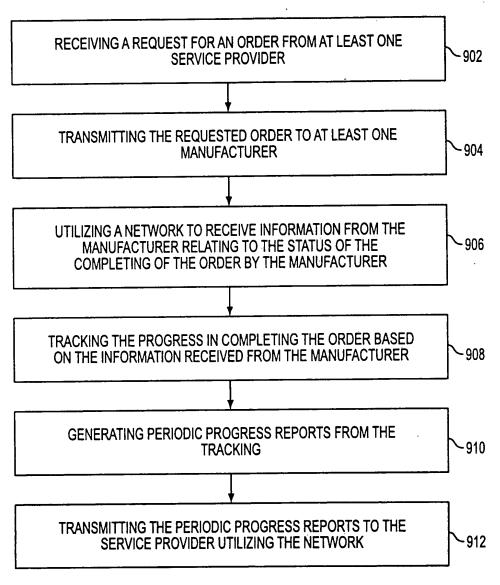


FIG. 9



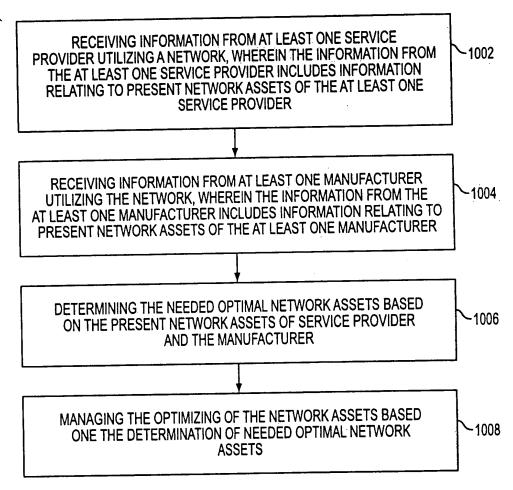


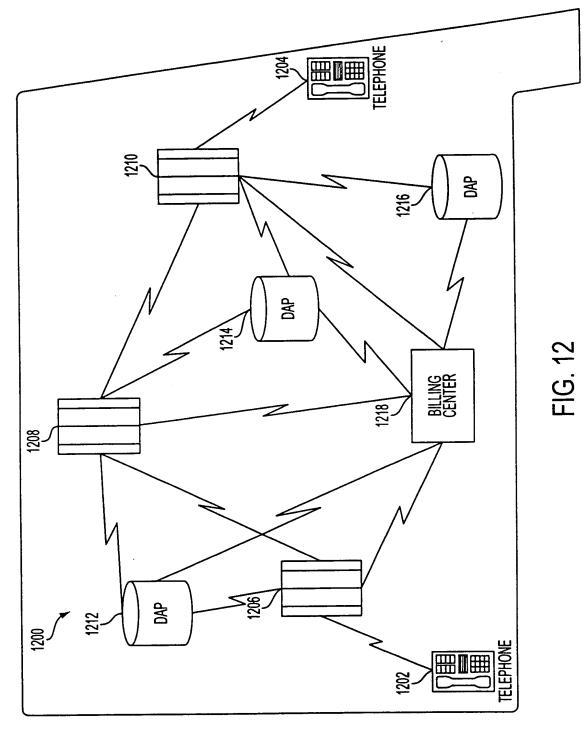
FIG. 10



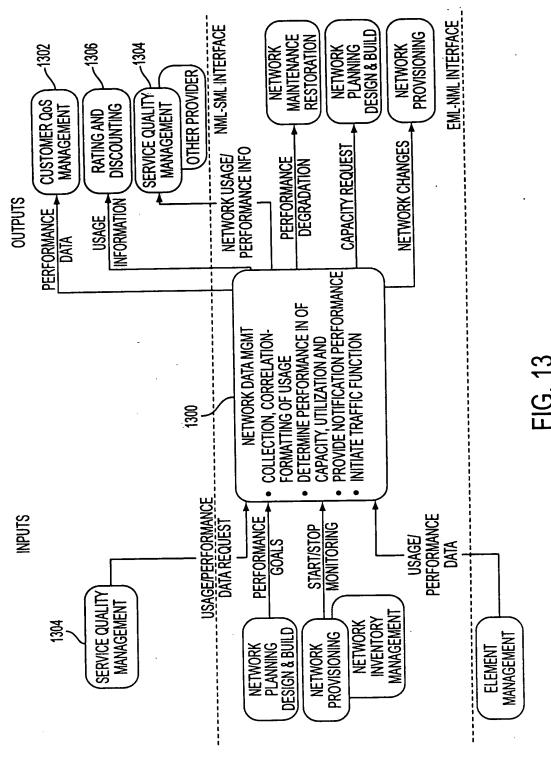
1100 RECEIVING AT LEAST ONE NOTICE FOR RECOMMENDED **-1102** MAINTENANCE AND SERVICE FROM AT LEAST ONE MANUFACTURER UTILIZING A NETWORK RECEIVING AT LEAST ONE REQUEST FOR MAINTENANCE AND SERVICE FROM AT LEAST ONE SERVICE PROVIDER -1104 UTILIZING THE NETWORK SCHEDULING MAINTENANCE AND SERVICE UTILIZING THE AT -1106 LEAST ONE NOTICE AND THE AT LEAST ONE REQUEST TRANSMITTING THE SCHEDULE TO THE AT LEAST ONE MANUFACTURER AND THE AT LEAST ONE SERVICE PROVIDER **-1108** UTILIZING THE NETWORK

FIG. 11











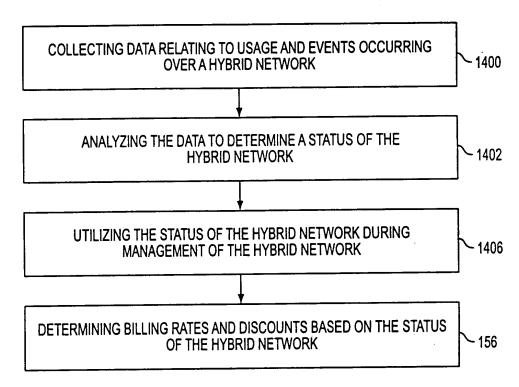
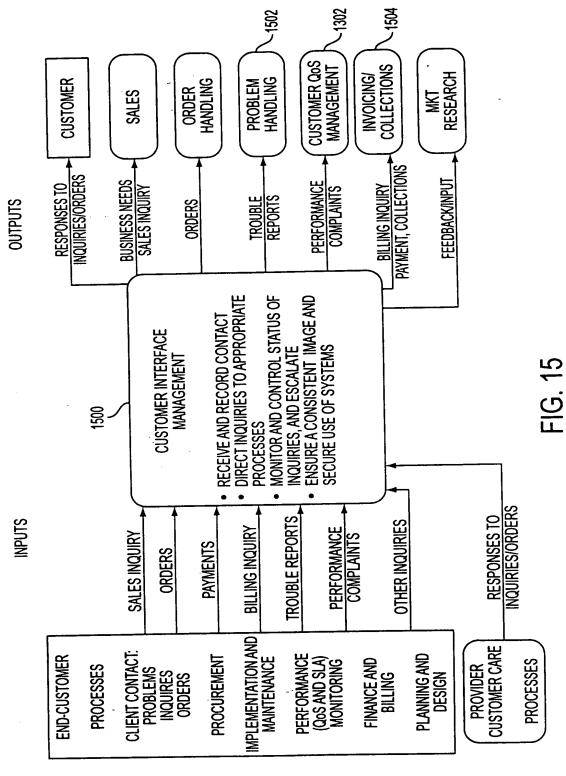


FIG. 14







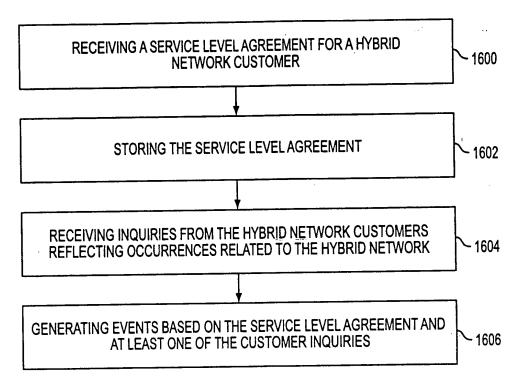
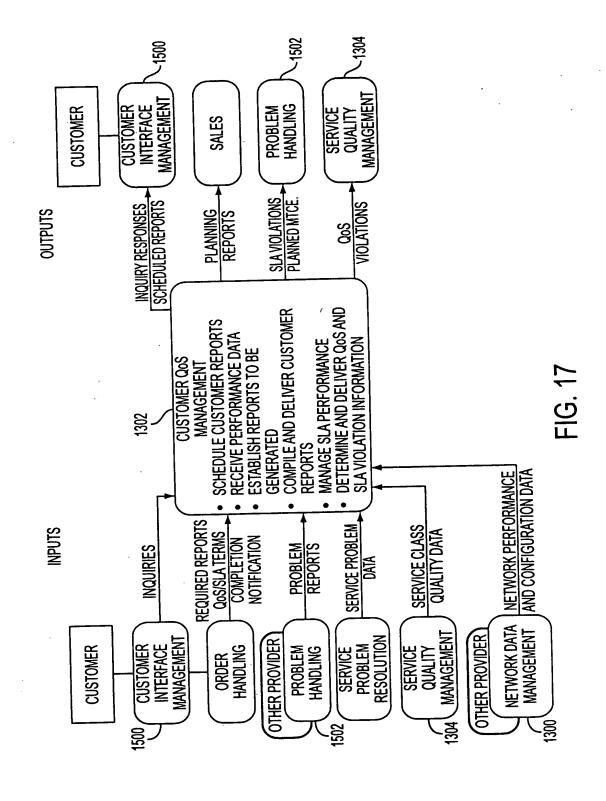


FIG. 16







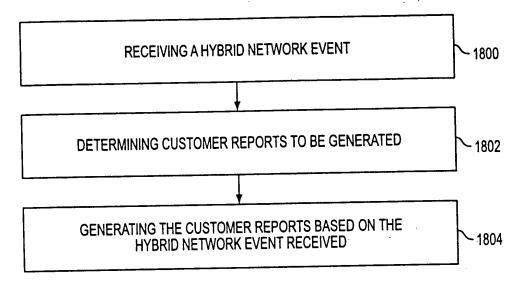
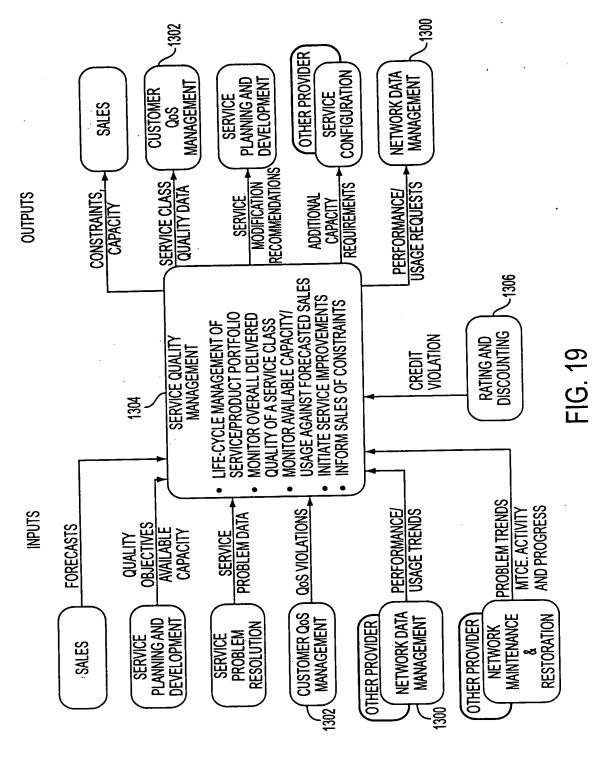


FIG. 18







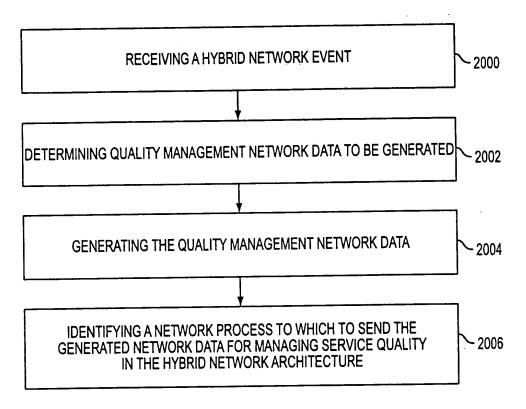
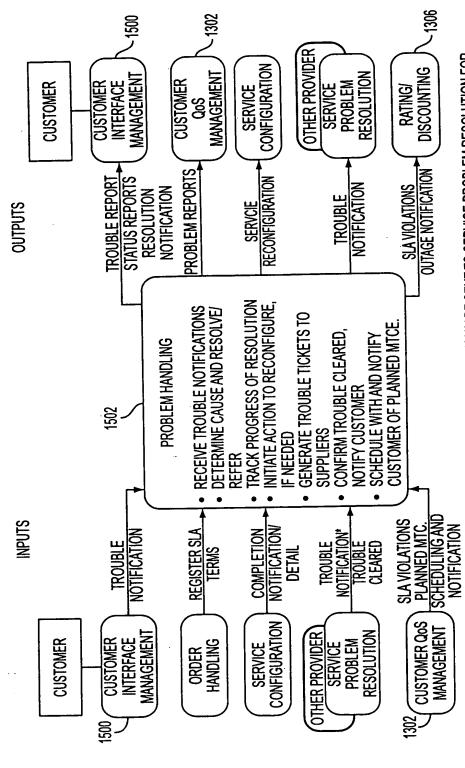


FIG. 20





* WHEN A TROUBLE IS REPORTED BY THE CUSTOMER, A TROUBLE REPORT MAY BE SENT TO SERVICE PROBLEM RESOLUTION FOR CORRECTION. WHEN A TROUBLE IS IDENTIFIED BY SERVICE PROBLEM RESOLUTION (VIA SERVICE QUALITY MANAGEMENT OR NETWORK MAINTENANCE AND RESTORATION) THEN PROBLEM HANDLING IS NOTIFIED IN ORDER TO INFORM THE CUSTOMER OF THE PROBLEM.



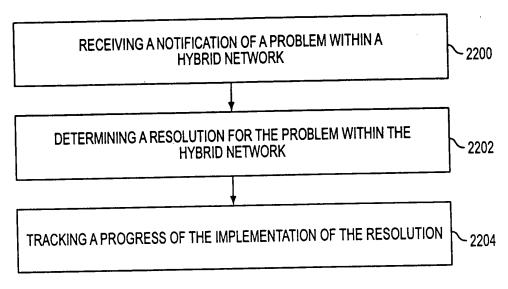
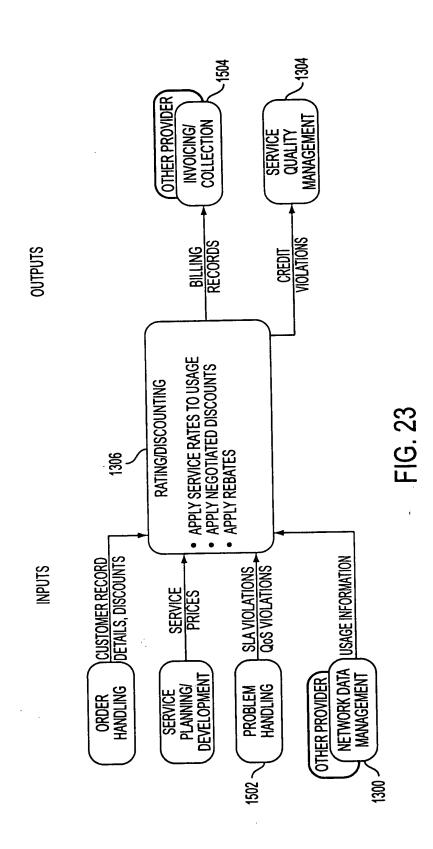


FIG. 22







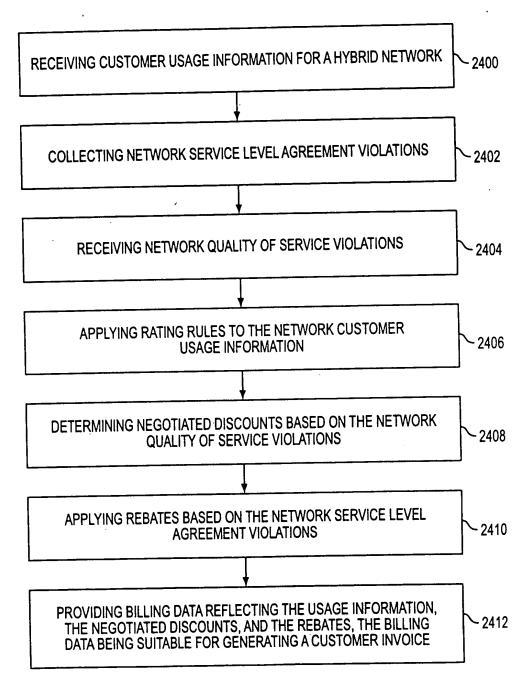


FIG. 24



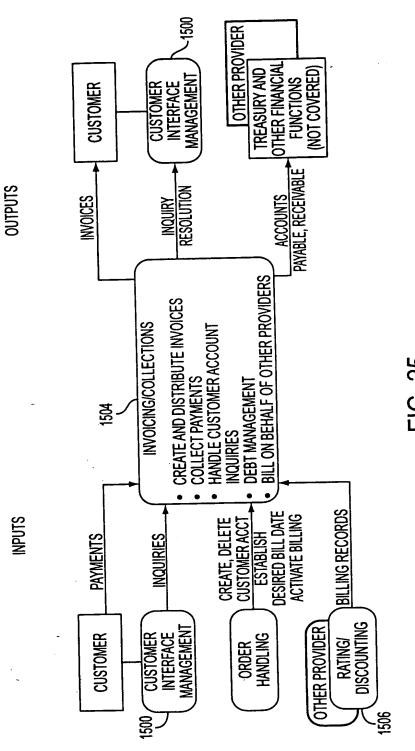


FIG. 25



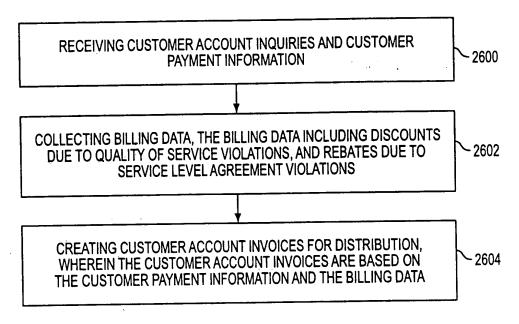


FIG. 26



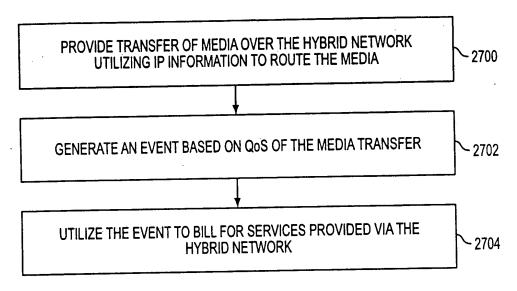
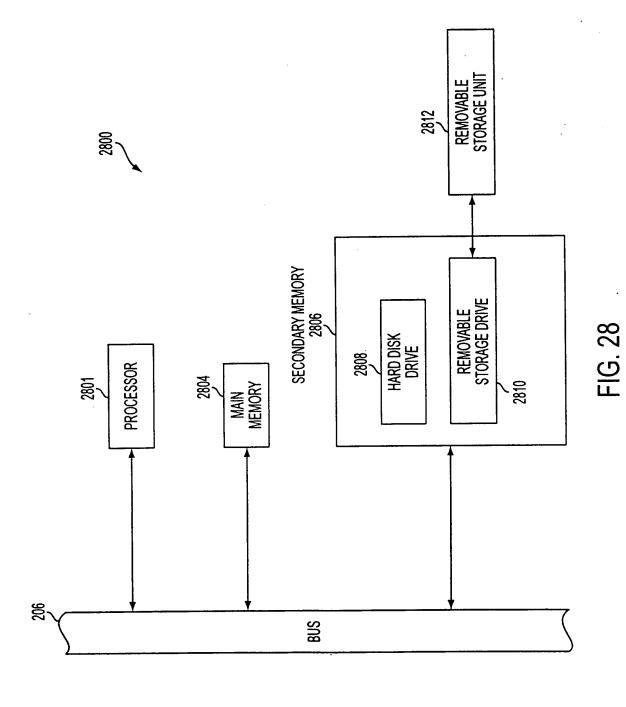


FIG. 27







MSB

BITS 0	0 01	02	03_	04	05	06	07	08	09		11	12	13	14	15
WORD 00		CR	ID							CD ID					_
01						T	P1 BIT	S 0-1	5						_].
02						TF	1 BIT	S 16-3	31						
03				TP3	BITS	0-12								P6 0-2	
04		,		TP6	BITS	3-12					· T	P7 BI	TS 0-	5	
05	· · · · · · · · ·					T	P7 BI1	rs 6-2	1						
06					OPL	. ORI	GINAT	ING F	ORT	0-15					
07	OP				TPL.	.TER	MINAT	ING F	ORT	0-14					
08	TP									GROU	Р			T	
.09			TERM	IINA	ring '	TRUN	K GR	OUP (1-12)					'3Q	
- 10	TP6Q		A	CTIC	ON CO	DDE				OTC			T	TC	
11		ID1			10)2					II IN				
12		CLI 1			CL	12			CLI				CLI 4		_
13		CLI 5			CL	16			CLI	7			CLI 8		_
14		CLI 9			CL	l 10			A ²				A2		
15		A3			A	\4			A:				A6		
16		A7			A	18			A9				A10		
17		A11			Α	12			A1				A14		
18		A15			Α	16			A1		\bot		A18		
19		A19			Α	20			A2				A22		
20		D1)2			D:				D4		
21		D5)6			D.				D8		
22		D9			D	10			D1				D12		
23		D13			D	14			D1				D16		
24		D17			PΊ	TD1			PTI			PTD3			
25		PTD4			P٦	D5			PTI				PTD	7	
26		PTD8			P1	TD9			PTC						
27		FC			TI	MC			K/				TP70		_
28			ENTR	Y CC				PD			D ID			IVID	_
29	D0	CC	IN		SC	CD	DE [TC		SA			IOCL	<u> </u>	
30		CN1			CN2				V3		<u> </u>	CN4			
31		ACIF			S	S7 RI	LEAS	SE CO	DE		NO	CIDSE	Q	NL !	RS
BIT	00 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

FIG. 29



MSB 02 03 04 05 06 07 08 09 10 11 12 13 14 15 BITS 00 01 CD ID **CR ID** WORD 00 **TP1 BITS 0-15** 01 **TP1 BITS 16-31** 02 TP6 0-2 **TP3 BITS 0-12** 03 TP7 BITS 0-5 **TP6 BITS 3-12** 04 **TP7 BITS 6-21** 05 **OPL. ORIGINATING PORT 0-15** 06 **TPL. TERMINATING PORT 0-14** 07 OP П OTG. ORIGINATING TRUNK GROUP 08 TP **TERMINATING TRUNK GROUP (1-12)** TP3Q 09 OTC TTC **ACTION CODE** 10 TP6Q **ANI INDEX** ID2 11 ID1 CLI₃ CLI 4 CLI 2 CLI₁ 12 CLI 8 CLI 7 CLI 6 CLI₅ 13 **CLI 12 CLI 11 CLI 10** CLI9 14 **CLI 14 CLI 15 A1 CLI** 13 15 A5 A4 A2 **A3** 16 A9 A8 A7 **A6** 17 A12 A13 A10 A11 18 A17 A16 19 A14 A15 A21 A20 A19 A18 20 A25 A23 A24 A22 21 A29 A27 **A28** 22 A26 A33 A32 A31 23 A30 A36 A37 A35 A34 24 A40 A41 A39 A38 25 A44 A45 A43 A42 26 TP7Q FC TMC **KAT** 27 DIVID EC, ENTRY CODE ND ID PD 28 SA NOCLI SC CD DE DT 29 DO MN CC IN CN₃ CN4 CN₂ 30 CN₁ NCIDSEQ NL RS SS7 RELEASE CODE **ACIF** 31 05 06 07 08 09 11 12 13 14 BIT 00 01 02 03 04 10

LSB

FIG. 30



	MSB																	LS	B
BITS 0		1 0	2 - ()3	04	05	06	6 (7	08	09	10)	11	12	13	3 ·	14	15
WORD 32 [<u> </u>													\perp					_
33														1					_
34		ID1				1)2)3				ID.			_
35		ID:	5			11	D6					07				ID			_
36		ID9	9			I)10)11		\bot		ID			_
37		ID1	3)14)15		-		ID			_
- 38		ID1	7			1[)18)19					20		
39		ID2	21			IE)22)23		\dashv			24		_
40		ID2	25				TD1					TD2		4			D3		
41		PTI	D4				TD5					TD6					D7		
42		PTI	D8				TD9					D10		_			D11		
43		PTC					TD13	3			Pl	D14				PII	D15		
. 44			Ell	R CA	LL T	YPE								/FAL		-	FA 2		СВ
45		OVE	CL				TA 1					TA 2		_+			TA 3		
46		DT	A 4				TA 5					TA 6					A7		
47			A 8	. •			TA 9					TA 10					A11		\dashv
48		DT/	12			D	TA 1	3		<u> </u>		TA 14	4		_	וט	A 1		
49				OVI					<u>L</u>			TAC	LOIF			l_		1CID	<u>'</u>
50		NETWORK CALL IDENTIFIER (NCID)																	
51		NETWORK CALL IDENTIFIER (NCID)																	
52		NETWORK CALL IDENTIFIER (NCID)																	
53					NETWORK CALL					IDE	ITICI	<u> </u>				\dashv			
54	L_				<u> </u>	NE I V	NOR	K C	ALL	IDENTIFIER (NCID)					Γ				
55					+-					╁									
56			·		_					┼-					-		_		\dashv
57						_				┼									\dashv
58					+					╫			T_{α}	2116	TYP	FΤ		OUI	=
59	_					OI	iie c	OUI	IT C	ONIT				700		-+	_	VFC	
60											BITN	ΔΡ	/1-1	61			_		
61				אומר	NIV4	UK DI	TAAA	D /4	7-24	VO4	RM N	JX64	BIT	MAF	2 (17	-241			
62				אוע	IAV	J# DI	AINA	ν (Ι ΝΤΙΝ	<u>, -24</u> JG N	JX64	BITI	MAP	(9-2	4)	<u> </u>	<u>- ·/</u>			
63															. 4	12	13	1	ــــــ 15 4
BIT	00	01	02	03	0	4 (05	06	07	. (8	09	10	1	ı	12	13	l,	, 10

FIG. 31



LSB MSB 02 03 04 05 06 07 08 09 10 11 12 13 14 15 BITS 00 01 CD ID CR ID WORD 00 **TP1 BITS 0-15** 01 TP1 BITS 16-31 02 TP6 0-2 **TP4 BITS 0-12** 03 TP7 BITS 0-5 **TP6 BITS 3-12** 04 **TP7 BITS 6-21** 05 **OPL. ORIGINATING PORT 0-15** 06 **TPL. TERMINATING PORT 0-14** OP 07 П OTG, ORIGINATING TRUNK GROUP 08 TP TP3Q **TERMINATING TRUNK GROUP (1-12)** 09 TTC OTC **ACTION CODE** 10 TP6Q ONACC TNACC ID2 11 ID1 CLI 3 CLI 4 CLI 2 12 CLI₁ CLI7 CLI 8 CLI 6 CLI 5 13 **A1** A2 CLI9 **CLI 10** 14 A6 A4 **A5 A3** 15 A10 **A8** A9 Ā7 16 A14 A12 A13 A11 17 A18 A17 A16 A15 18 A21 A22 A19 A20 19 D4 **D**3 D1 D2 20 D8 D7 **D5** D6 21 D12 **D11** D9 D10 22 D16 D15 **D13** D14 23 OPIN D17 24 TPS BITS 0-12 25 OPIN RN4 RN₃ RN2 26 RN1 TP7Q KAT FC TMC 27 DIVID EC, ENTRY CODE ND ID PD 28 NOCLI CC IN SC CD DE DT PP XC SA 29 D0 CN4 CN3 30 CN1 NCIDSEQ NL RS SS7 RELEASE CODE **ACIF** 31 12 13 14 15 05 06 07 08 10 11 03 04 09 BITS 00 01 02

FIG. 32



		MS	B													LS	SB	
ВІ	TS (00	01	02	03	04	05	06_	07	08	09	10		12	13	14	15	
WORD	00			CF	RID							CD II	<u> </u>				_	
	01								P1 BIT								_	
	02			-				TI	P1 BIT	S 16-3	31						_	
	03					TP4	BITS	0-12								P6 0-2	<u> </u>	
	04		·			TP6	BITS	3-12					· ·	TP7 B	ITS 0	5	_	
	05								TP7 BI	TS 6-2	21							
	06						OP	L. OR	IGINA	TING	POR	Γ 0-15	<u> </u>				_	
	07	0	7				ΤP	L. TEF	RMINA	TING	POR	T 0-14	<u> </u>					
	08	1	P			(OTG.	ORIG	INATI	NG TR	UNK	GRO	UP			!	T	
	09				TER	MINA	TING	TRUN	VK GR	OUP (23Q	_	
	10	T	P6Q			ACTI	ON C	ODE			01					TC	_	
	11			ID1				D2			ONA				TNAC			
	12		(CLI 1				LI 2			CL				CLI 4		_	
	13		(CLI 5			С	LI 6			CL			Ĺ	CLI 8		_	
	(CLI 9			Cl	_I 10			CL				CLI 1	2				
	15	Г	(CLI 13			Cl	1 14				15			<u>A1</u>		_	
	16			A2				A3				4		<u> </u>	A5			
	17			A6				Ä7				.8			A9 A13			
	18			A10				111				12		<u> </u>		_		
	19			A14				115				16		A17 A21				
	20			A18				119				20						
	21			A22				123	_			24		A25				
	22			A26				127				28			A29			
	23			A30				431				32		<u> </u>	A33		_	
	24			A34				435				36		 	A37			
	25			A38				439				40		<u> </u>	A41		_	
	26			A42				443				44		<u> </u>	A45			
	27	L		FC				NC		<u> </u>	<u>K</u>	AT	N 6 "	<u> </u>	TF7		_	
	28	L			ENT					PD			ND II			DIVID		
	. 29	P		M C) IN				DE [T P		C S	٩		NOCL			
•	30			CN1		_	CN2				<u> </u>	_	┦-	10100	CN4			
	31	L		ACIF			- (5S7 R	ELEAS					CIDS		NL		
	BITS SR/EI			02 RMA		04	05	5 06	07	08	09	10	11	1 12	2 13	14	15	
EU	OIVE	U.S		/: \IVD"\	•			 1	<u> </u>	2								

FIG. 33



	7.00015070														LS	В	
BITS (00	01	02 -	03	04	05	06	07	08	09	_			13	14	15	
32			T	& C G	UES	T1											
33			T	&CG	UES	T3		Î			T &	CG	UEST 4	4			
34		- 11	D1][)2			ID	3			ID4			
35		11	D5			1[)6			ID	7		1	ID8			
36		I	D9			ID	10			ID1	11			ID12		_	
37		10)13			ID	14			ID1	5			ID16		_	
38		- 10)17			ID	18			ID'				ID20		_ .	
39		- 10)21			ID)22			ID2	23			ID24		╛	
40		IC)25			P1	ΓD1			PTI	02			PTD3			
41		P	TD4			Ρ	TD5			PTI				PTD7		_	
42		P	TD8			P.	TD9			PTC)10			PTD11			
43		PΊ	D12			PT	D13			PTE				PTD15			
44			E	IR CA	LLT	YPE					C	VFA				В	
45		0\	/FCL			D.	ΓA 1			DT/	A 2			DTA 3			
46	DTA 4					D,	TA 5			DT/	46			DTA 7			
47		D	TA 8			D.	TA 9			DTA	10			DTA11			
48		D٦	A 12			DT	A 13			DTA	14			DTA 1			
49	Г			OVF	C					DTA	C			1	1CID		
50					N	ETW	ORK (CALL	DENT	IFIEF	R (NC	ID)					
51		,			· N	NETWORK CALL IDENTIFIER (NCID)											
52					N	NETWORK CALL IDENTIFIER (NCID)											
53							ORK (
54			-		N	ETW	ORK (CALL	IDEN	STIFIE	R (NC	ID)					
55			-	T&C	R00	M 1							ROOM 2				
56				T & C	ROO	М3							ROOM 4				
57				T&C	R00	M 5					Τ	& C F	ROOM				
58		Е	AC1			E	AC2			ΕA	.C3			EAC4	1		
59		Е	AC5			E	AC6			ΕA	.C7			EAC8			
60		E	AC9			E/	\C10			EA	C11		EAC12				
61							OF	PIN					OVFCS				
62						T	P5-OF	PERA	FOR R	ELE/	\SE						
63		-	RN1			F	RN2			RI	V 3			RN4			
BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	

FIG. 34

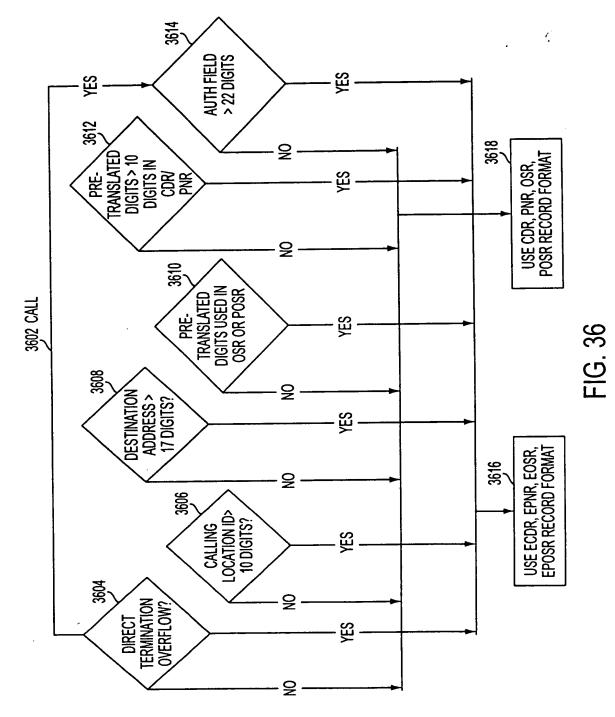


MSB

		IVIOD																	
В	SIT 0	0 0	1 (02 (03 (04	05	06	07	08	09	10	11	12	13	14	_15		
WORD	00 [CR I	D				SYN	C W	ORD	(MINU	S 2, C	CTAL	7776)	4		
	01				CD	D, C	ALL [DISC	ONNE	<u>CT I.</u>	<u>D. N</u>	MBE	₹ (0-1	5)			_		
	02				CDI	D, C/	ALL D	ISCC	NNE	<u>CT 1.[</u>). NU	MBEF	₹ (16-3	31) _			_		
	03			SWID					SWI	02		ł		SW	/ID 3		_		
	04			ST-S	WITC)-EVE		JALIF	IER		_		
	05						SERI	T-SE	R EVI	ENT 1	IME	(0-15)					_		
	06					(SERI	T-SEF	REVE	NT T	IME (16-31)				_		
	07				-			FC	DID-	FIRS'	TRE(CORD	CDID	(12 L	.SAs)				
	08							L(CDID	LAST	REC	ORD	CDID	(12 L	SAs)		_		
	09				-			N(CDID	NEX	T RE	CORD	CDID	(12 L	<u>.SAs)</u>		_		
	10				N	BSN-	NEM	AS B	LOCK	SEC	UEN	CE N	<u>JMBE</u>	<u>R</u>			_		
	11						P	-PRE	VIOL	<u>IS TIN</u>	ИЕ (0	-15)							
	12						PT	-PRE	VIOU	S TIM	1E (1	3-31)					_		
	13	SI				TIN	ИE О	FFSE	T								_		
	14																		
15																			
	16			SOFT	WAR	E LO	AD II	01											
	17			SOFT	WAR	E LO	AD II	D 3				OFTV							
	18			SOFT								OFTV					_		
	19			LAST	PATC	HS/P	RRL	.S1			_ <u>L</u>	AST P	PATCHS/PR RLS2						
	20			QCE)R					CDR			,						
	21			QPN	ΛR					PMR									
	22			QOS	SR					OSR				·					
	23			QPO	SR			QSPOSR											
	24			QSI	ER					NPN_									
	25				-	Ç	DR 1	THRO	TTLE	STA	RT TI	ME (0	-15)						
	26					C	DR T	HRO	TTLE	STAF	RT TII	VE (16	31)						
	27											ME (0-							
	28					C	DR 1	THRO	TLE	STO	PTIN	1E (16	<u>-31)</u>						
	29													FOR	MAT V	ER.			
	30								TLE										
	31						T	HRO	TTLE	COU	NT (1	6-31)							
	BIT	00	01	02	03	04	05	06	6 0	7 0	8 0	9 1	0 1	1 12	2 13	14	1:		

FIG. 35







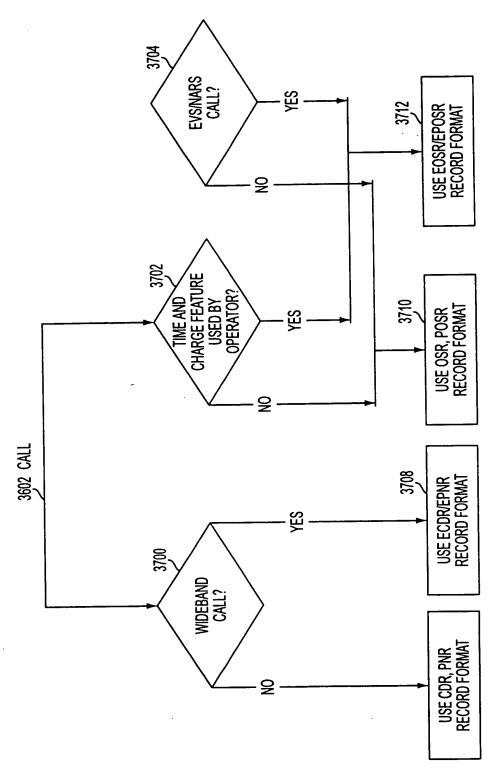
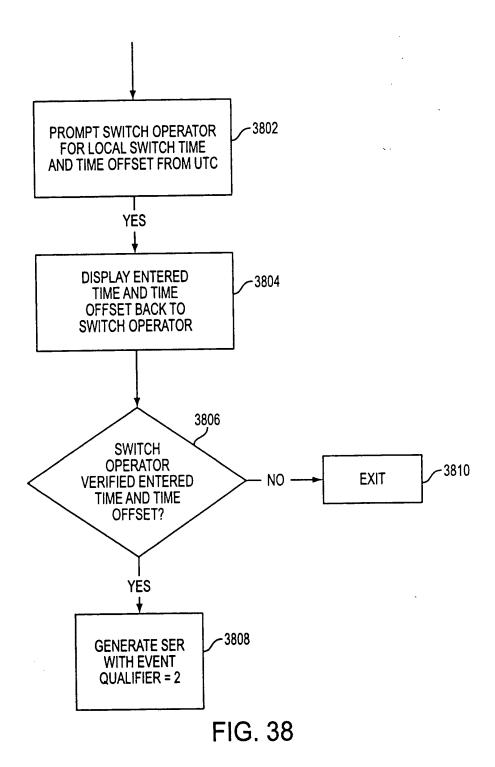
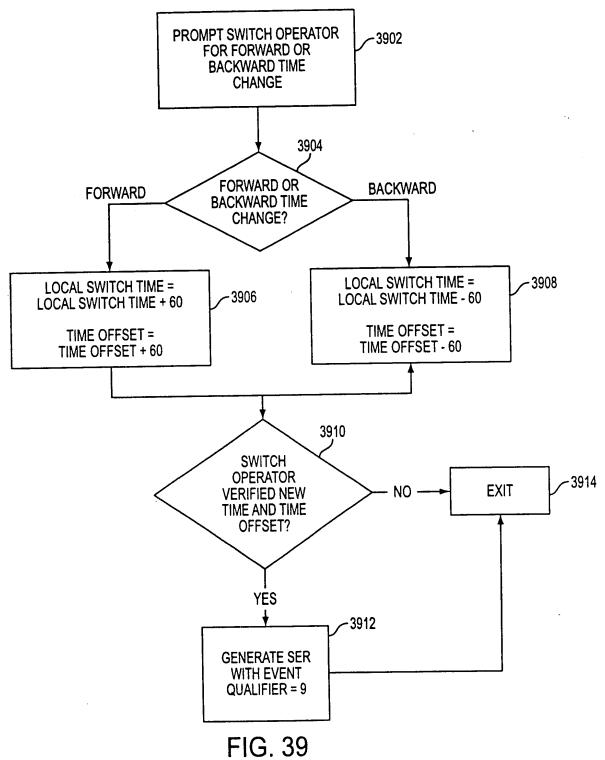


FIG. 37











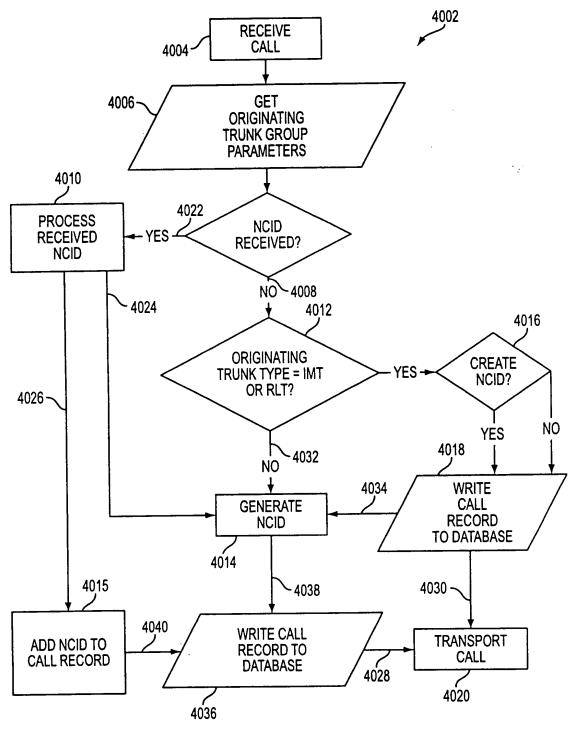


FIG. 40



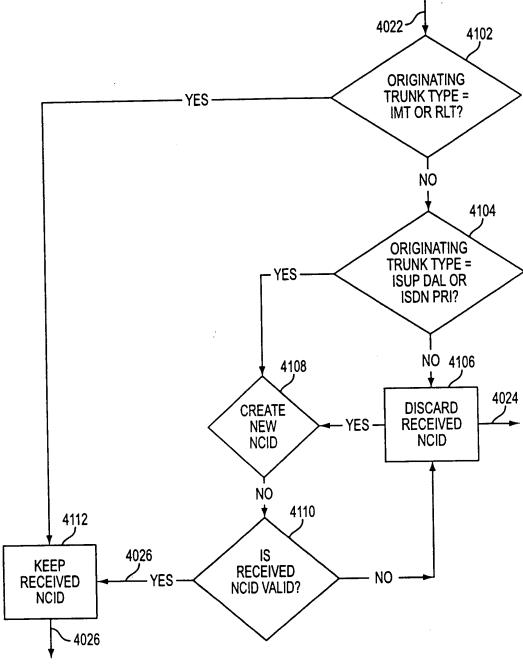


FIG. 41



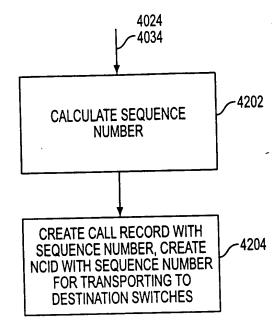


FIG. 42



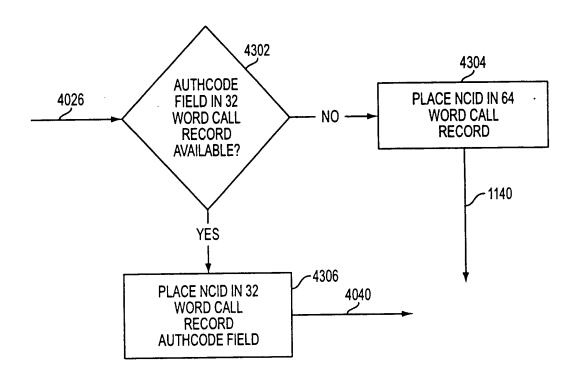


FIG. 43



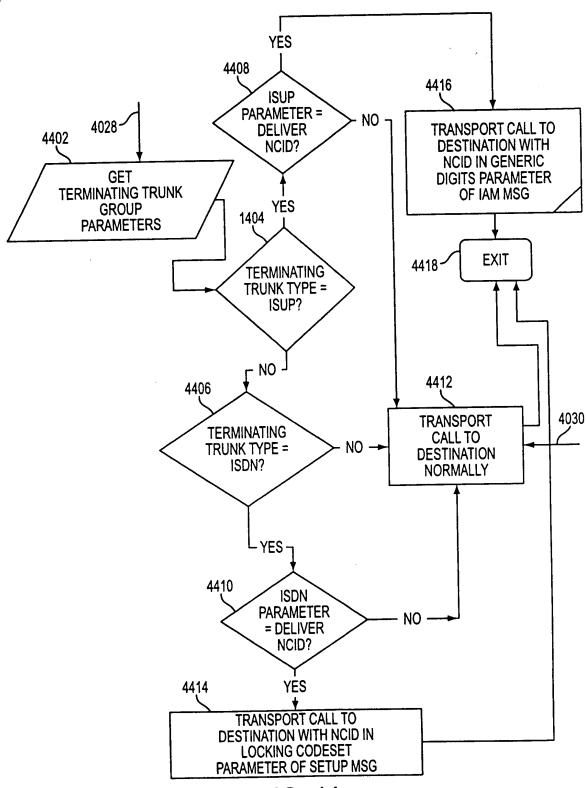


FIG. 44



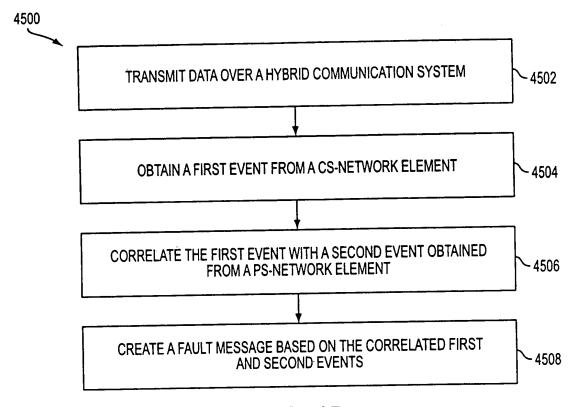
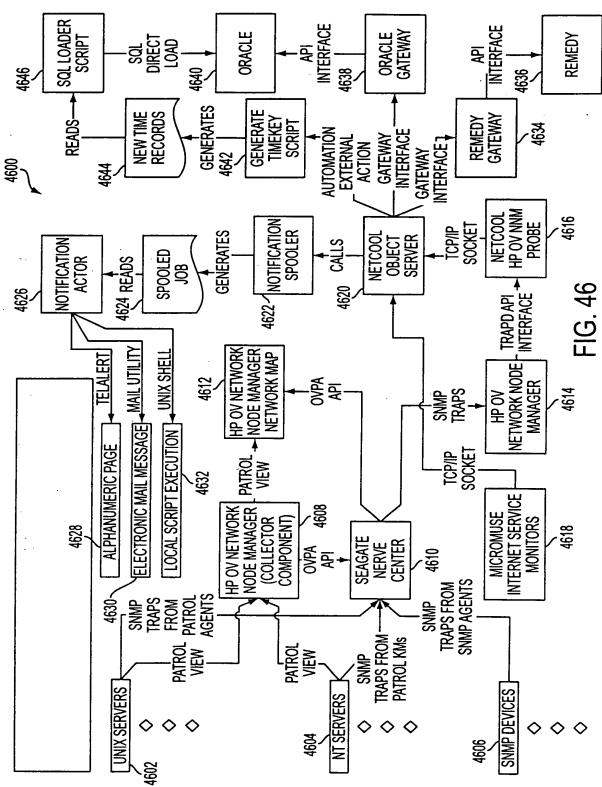


FIG. 45







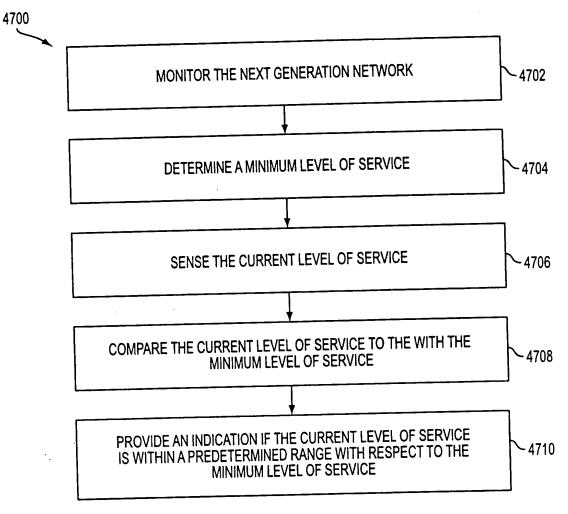


FIG. 47



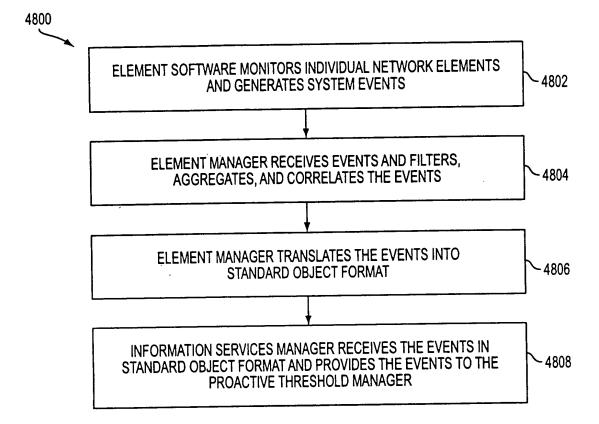


FIG. 48



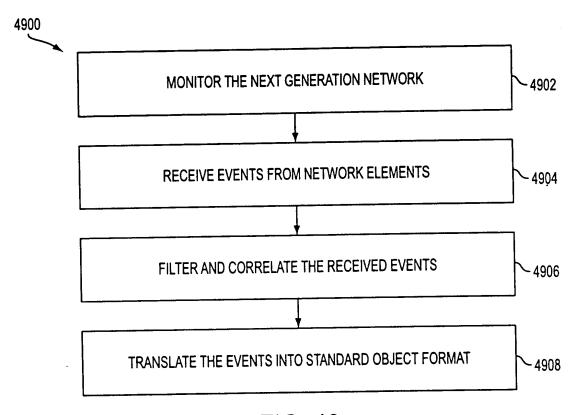


FIG. 49



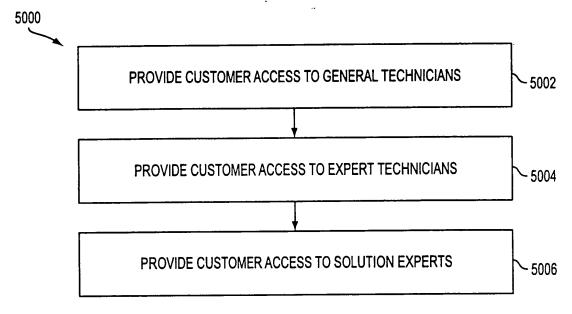


FIG. 50



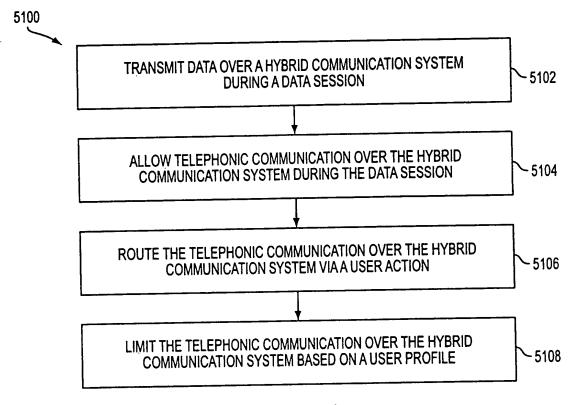


FIG. 51



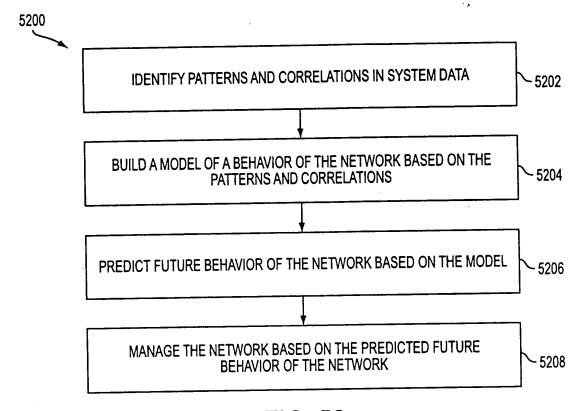


FIG. 52

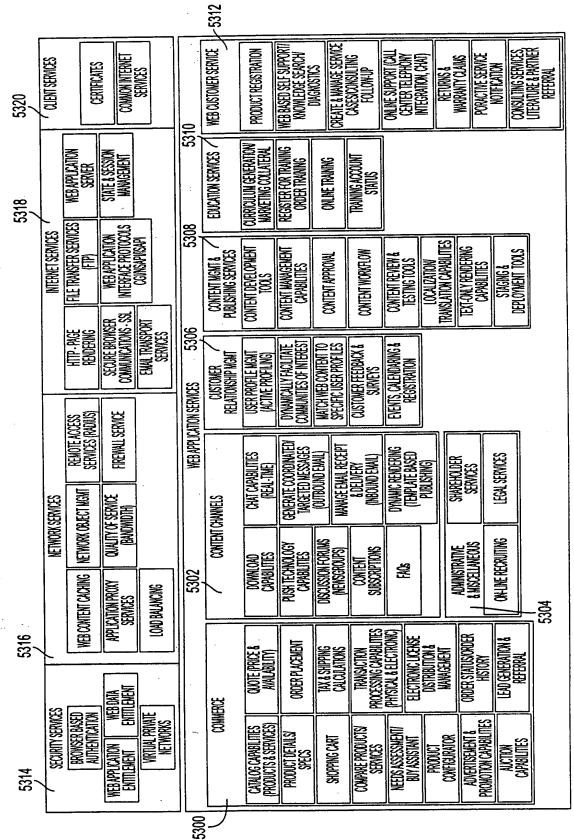
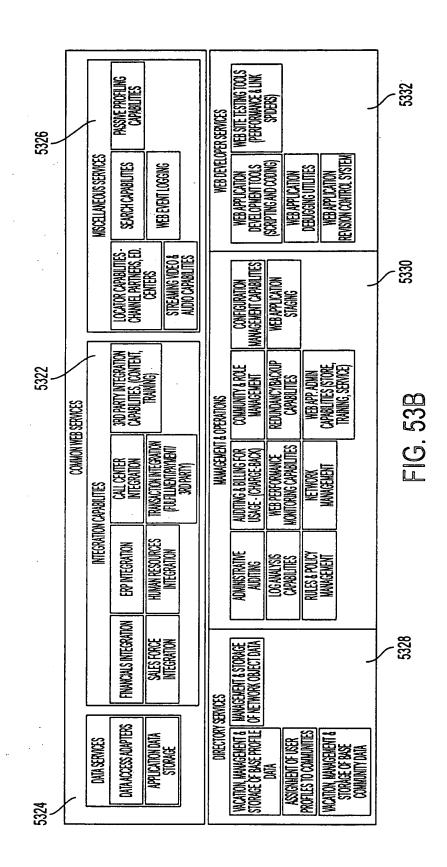


FIG. 53A







5300

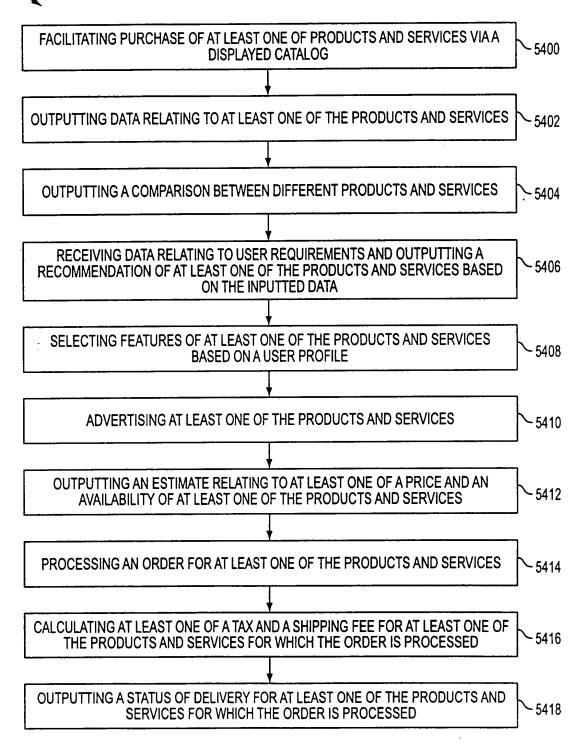


FIG. 54



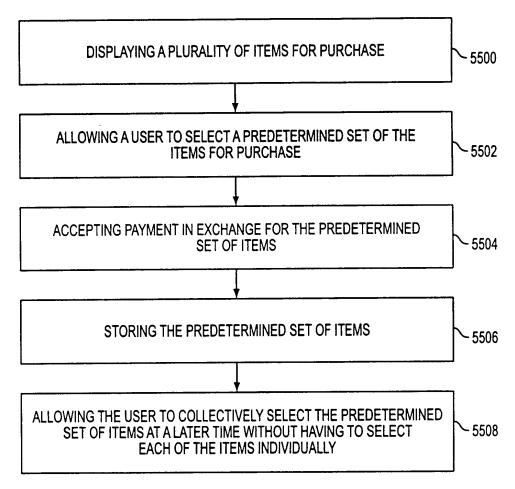


FIG. 55



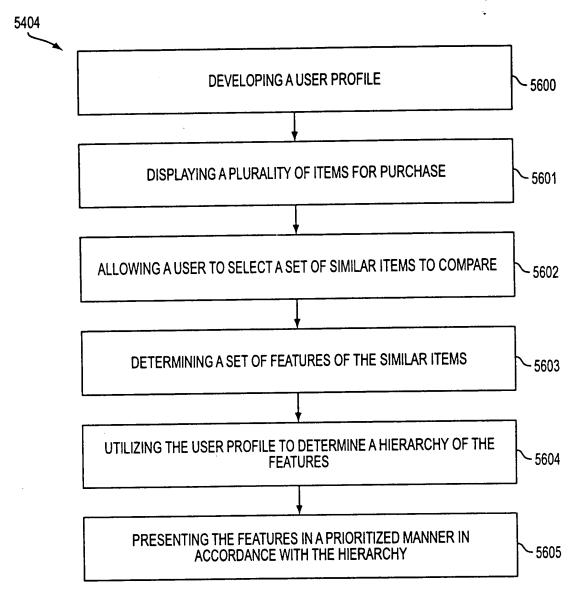


FIG. 56



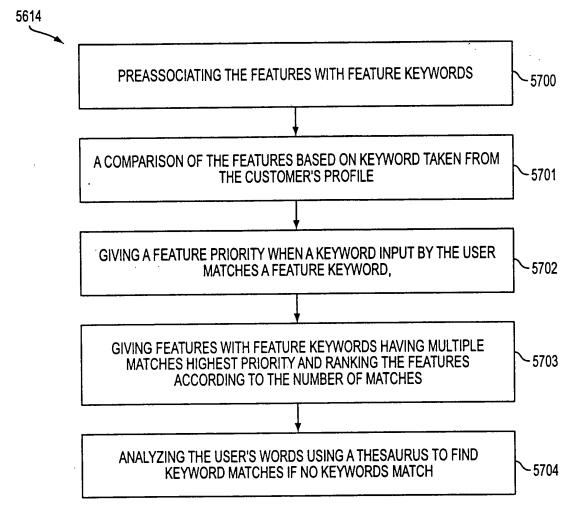


FIG. 57



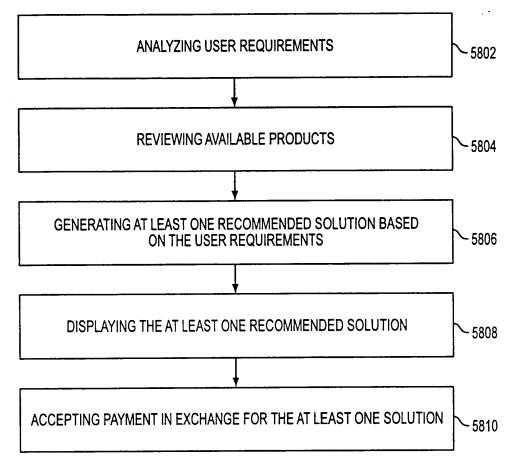


FIG. 58



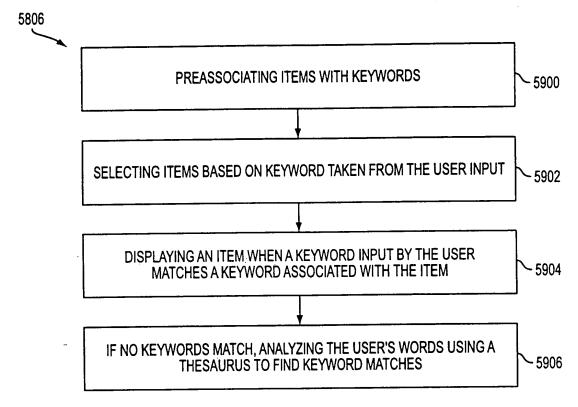


FIG. 59



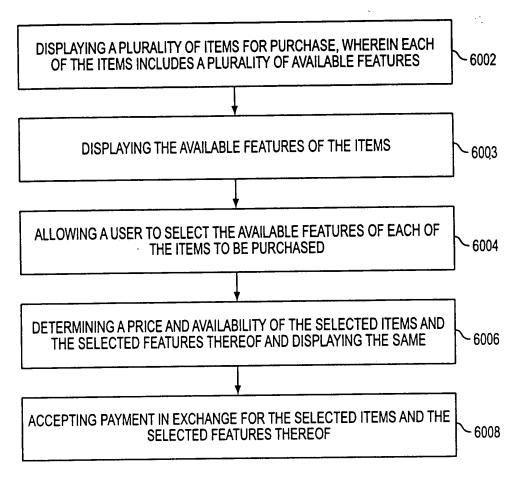


FIG. 60



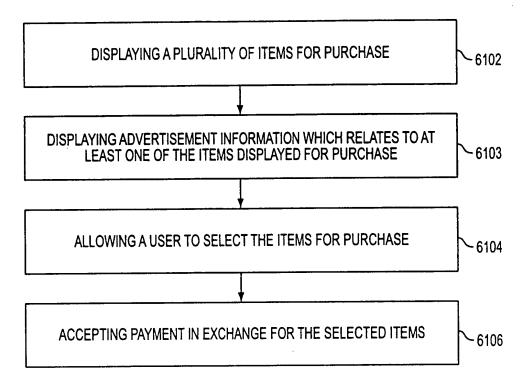


FIG. 61



PREASSOCIATING ADVERTISEMENTS WITH INDIVIDUAL ITEMS OR WITH ENTIRE CLASSES OF ITEMS

AUTOMATICALLY DISPLAYING ONE OR MORE OF THE ADVERTISEMENTS WHEN THE ITEMS ARE SELECTED FOR DISPLAY

ROTATING THE ADVERTISEMENTS SO THAT EACH GETS AN EQUAL AMOUNT OF DISPLAY TIME, OR ACCORDING TO THE PREMIUM PAID BY THE ADVERTISER

6204

FIG. 62



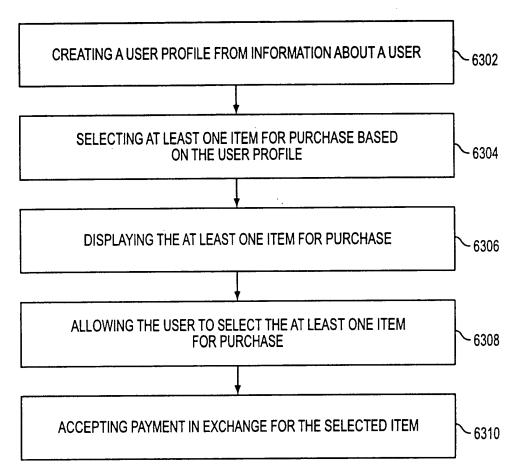


FIG. 63



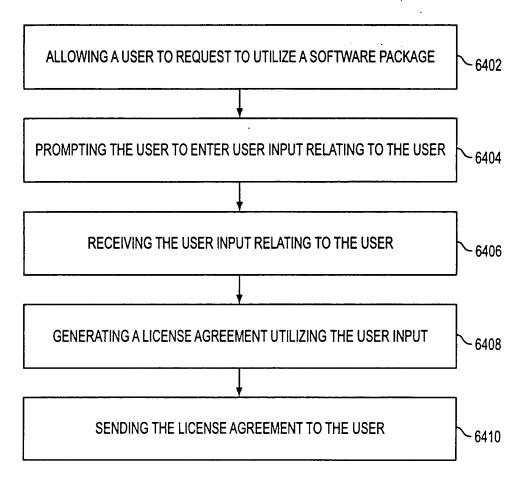


FIG. 64



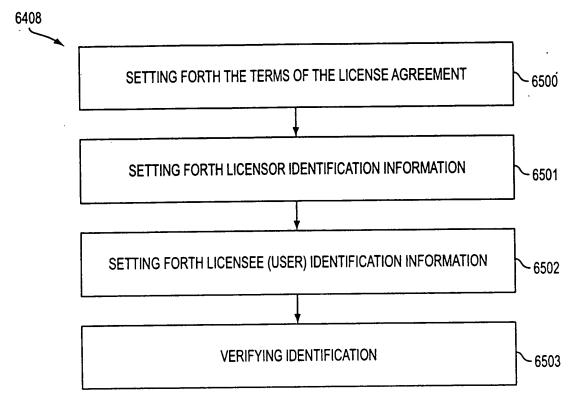


FIG. 65



5302

DOWNLOADING DATA -6600 TRANSMITTING DATA BASED ON USER SPECIFICATIONS -6602 PROVIDING A PLURALITY OF NEWSGROUPS TO WHICH USERS SUBSCRIBE **-6604** OUTPUTTING ANSWERS TO FREQUENTLY ASKED QUESTIONS RELATING TO THE -6606 CONTENT-RELATED WEB APPLICATION SERVICES ENABLING REAL TIME COMMUNICATION BETWEEN A PLURALITY OF THE USERS **-6608** COORDINATING THE TRANSMISSION OF ELECTRONIC MAIL -6610 ORGANIZING RECEIVED ELECTRONIC MAIL **-6612** PROVIDING A PLURALITY OF TEMPLATES FOR PUBLISHING DATA IN VARIOUS -6614 **FORMS**

FIG. 66



5306

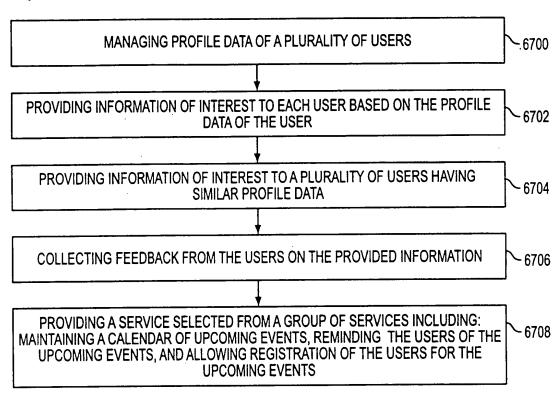


FIG. 67



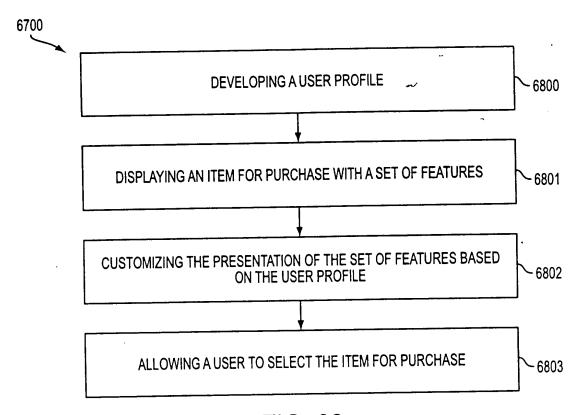


FIG. 68



COLLECTING USER INFORMATION SUCH AS SEARCH REQUESTS,
SHOPPING EVENTS, AND BROWSING HABITS

PLACING ALL OF THE USER INFORMATION IN A DATABASE FOR
RETRIEVAL WHEN NECESSARY

6901

ESTIMATING A USER'S BUYING PATTERN FOR A PARTICULAR TYPE OF
ITEM EACH TIME A USER USES THE SYSTEM

6902

LOGGING THE USER'S CURRENT ACTIVITIES AND ENTERING THEM
INTO THE DATABASE

FIG. 69



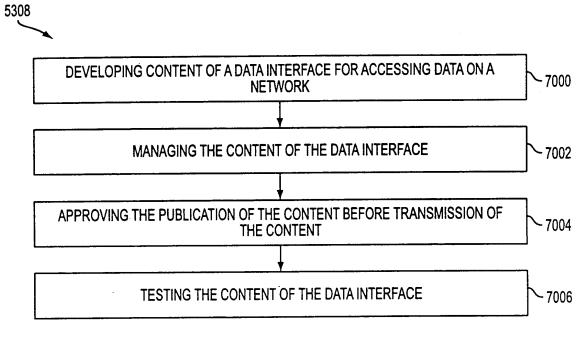


FIG. 70



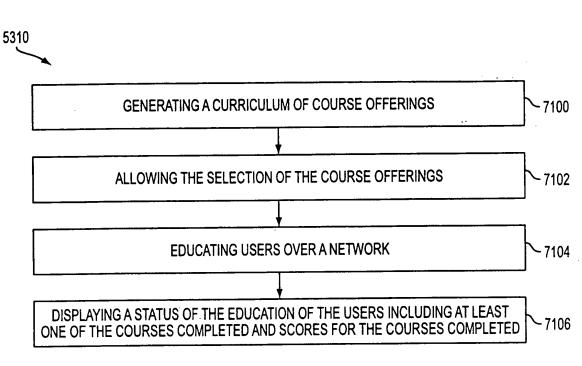


FIG. 71



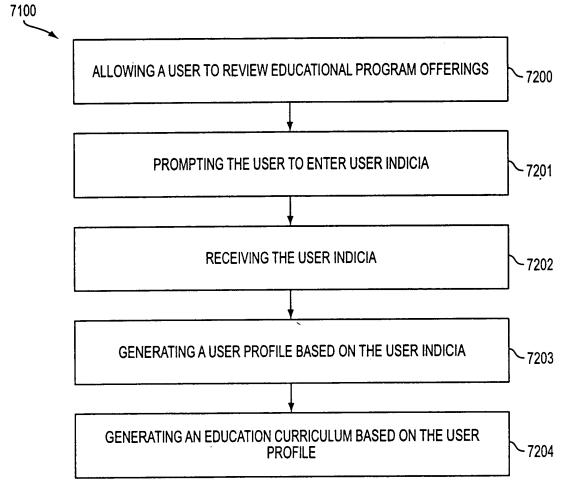


FIG. 72



GENERATING THE EDUCATION CURRICULUM BASED ON THE
CURRENT EXPERTISE

7300

RECEIVING STUDENT DEFINED TRAINING GOAL, SUCH AS A SPECIFIC
CERTIFICATION OR DEGREE (ADDITIONAL USER INDICIA),

TAKING THE TRAINING GOAL FROM THE STUDENT PROFILE

7302

GENERATING THE EDUCATION CURRICULUM TO FULFILL THE
TRAINING GOAL

7303

MONITORING THE STUDENT'S PROGRESS AND PRODUCING REVISED
EDUCATIONAL CURRICULUMS

7304

FIG. 73



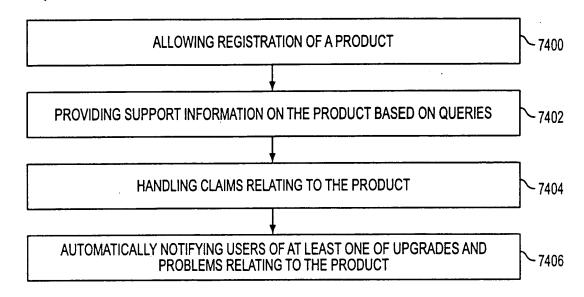


FIG. 74



7406 PROVIDING COMMERCIAL OFFERINGS FOR A USER TO REVIEW ~ 7500 ALLOWING THE USER TO SELECT FROM THE COMMERCIAL OFFERINGS ~7501 PROMPTING THE USER TO ENTER USER INDICIA ~ 7502 RECEIVING THE USER INDICIA ~7503 COMPLETING SALE AND DELIVERY OF THE COMMERCIAL OFFERINGS ~ 7504 MONITORING THE STATUS OF THE COMMERCIAL OFFERINGS UTILIZING THE USER INDICIA ~ 7505 COMMUNICATING WITH THE USER THE STATUS OF THE COMMERCIAL **OFFERINGS -7506**

FIG. 75



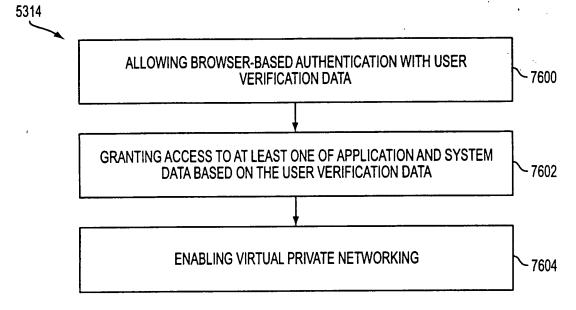


FIG. 76



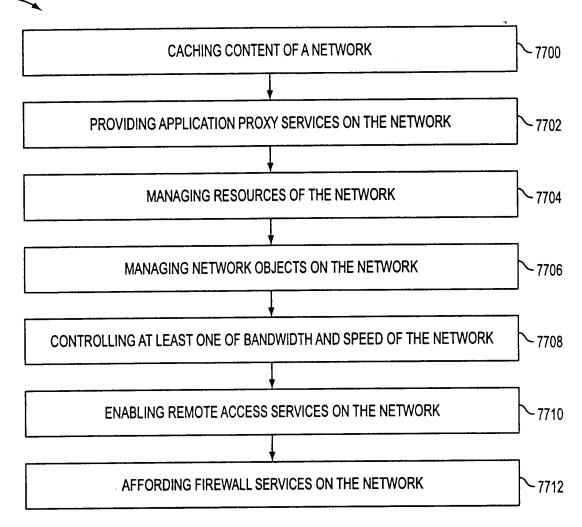


FIG. 77



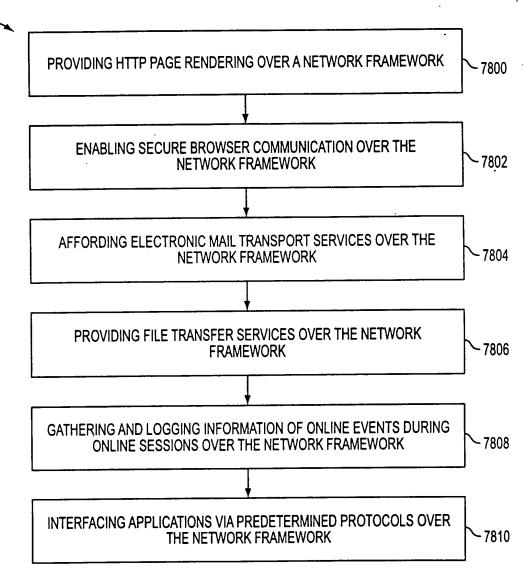


FIG. 78



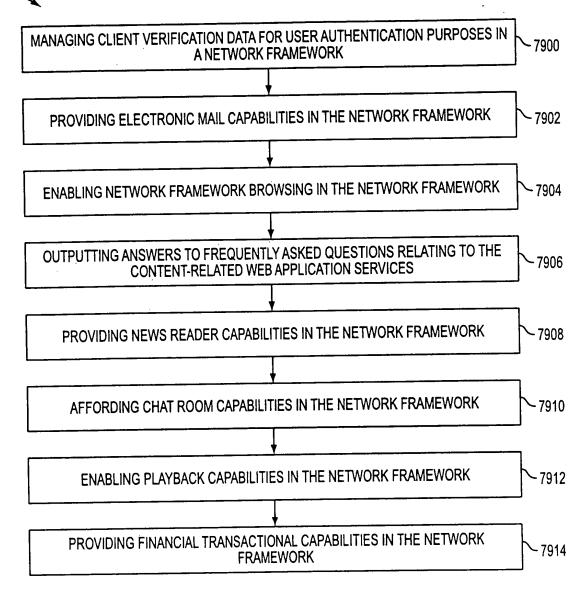


FIG. 79



PROVIDING DATA ACCESS FROM MULTIPLE SIMULTANEOUS DATA SOURCES OVER A NETWORK FRAMEWORK

STORING APPLICATION DATA OVER THE NETWORK FRAMEWORK

8002

FIG. 80



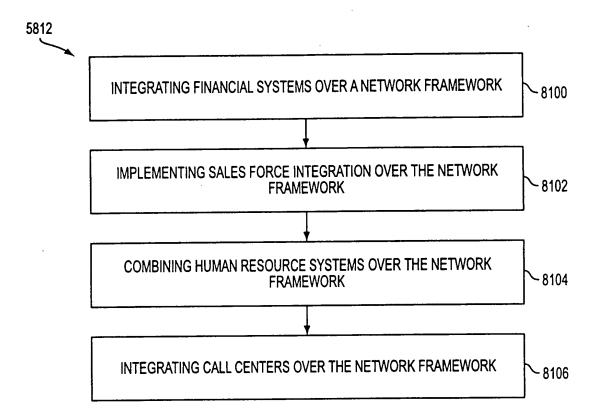


FIG. 81



PROVIDING LOCATOR CAPABILITIES OVER A NETWORK FRAMEWORK

TRANSMITTING AT LEAST ONE OF STREAMING VIDEO AND AUDIO DATA
OVER THE NETWORK FRAMEWORK

LOGGING EVENTS OVER THE NETWORK FRAMEWORK

PASSIVELY MANAGING USER PROFILE INFORMATION OVER THE
NETWORK FRAMEWORK

8206

FIG. 82



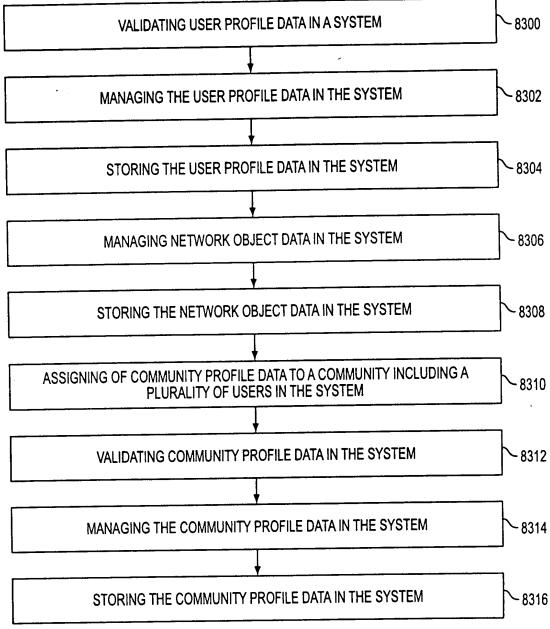


FIG. 83



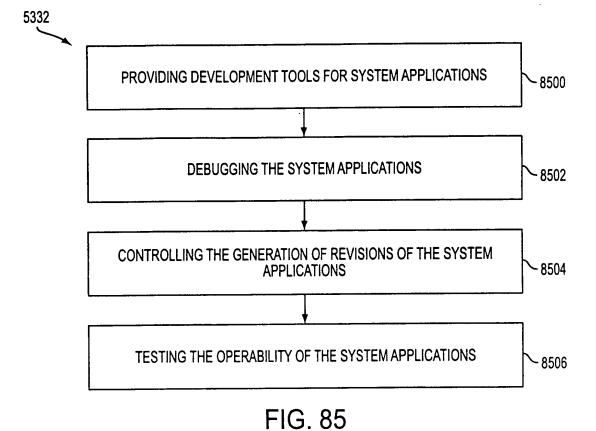
5330 AUDITING ADMINISTRATIVE DATA IN A SYSTEM - 8400 ANALYZING DATA FROM LOG FILES IN THE SYSTEM ~8402 MANAGING RULES AND POLICIES IN THE SYSTEM ~8404 AUDITING USAGE IN THE SYSTEM ~8406 BILLING FOR THE USAGE IN THE SYSTEM ~8408 MONITORING PERFORMANCE IN THE SYSTEM -8410 MANAGING COMMUNITIES OF USERS IN THE SYSTEM ~8412 PROVIDING BACKUP CAPABILITIES IN THE SYSTEM -8414

FIG. 84

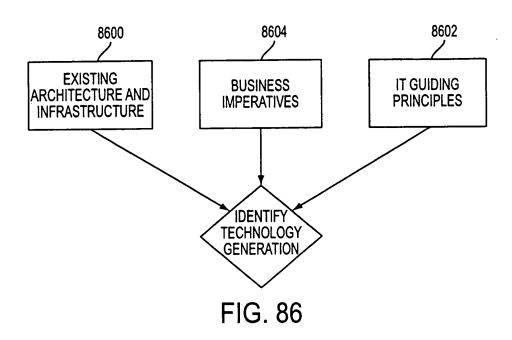
PROVIDING NETWORK APPLICATION STAGING IN THE SYSTEM

-8416

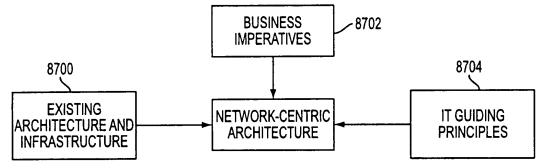








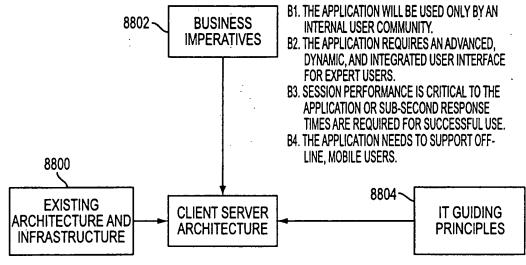
- B1. THE CLIENT NEEDS TO REACH A NEW EXTERNAL AUDIENCE WITH THIS APPLICATION.
- B2. THE CLIENT NEEDS TO REACH A LARGE OR DIVERSE INTERNAL AUDIENCE WITH THIS APPLICATION.



- E1. OTHER NETWORK-CENTRIC APPLICATIONS HAVE BEEN DEVELOPED AND PLACED IN PRODUCTION.
- E2. THE CLIENT HAS SIGNIFICANT TECHNOLOGY SKILLS WITHIN ITS IT DEPARTMENT.
- E3. THE CLIENT HAS MULTIPLE HARDWARE/OPERATING SYSTEM CONFIGURATIONS FOR THEIR CLIENT MACHINES.
- E4. THE APPLICATION WILL RUN ON A DEVICE OTHER THAN A PC.
- E5. THE CURRENT LEGACY SYSTEMS CAN SCALE TO SERVE A POTENTIALLY LARGE NEW AUDIENCE.
- G1. THE CLIENT IS AN EARLY ADOPTER OF NEW TECHNOLOGY.
- G2. APPLICATIONS SHOULD BE DEVELOPED TO HANDLE NON-DEDICATED OR OCCASIONAL USERS.
- G3. WHERE APPROPRIATE, APPLICATIONS SHOULD BE DEVELOPED WITH MULTI-MEDIA CAPABILITIES FOR THE PRESENTATION OF DATA (TEXT, SOUND, VIDEO, ETC.).
- G4. THE EXECUTION, OPERATION AND DEVELOPMENT ARCHITECTURES WILL BE DESIGNED TO SUPPORT FREQUENT RELEASES OF ENHANCEMENTS/ MODIFICATIONS TO PRODUCTION APPLICATIONS.

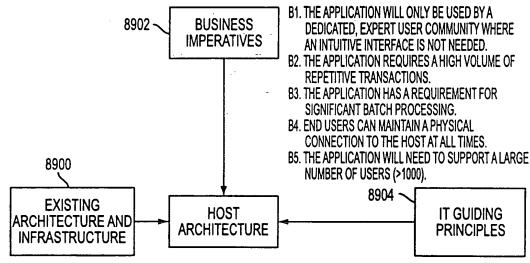
FIG. 87





- E1. OTHER CLIENT SERVER APPLICATIONS BEEN DEVELOPED AND PLACED IN PRODUCTION AND THE CLIENT IT ORGANIZATION CONTAINS PERSONNEL FAMILIAR WITH CLIENT SERVER ARCHITECTURE CONCEPTS.
- G1. THE CLIENT MAINTAINS THEIR APPLICATIONS
 INTERNALLY AND THE IT DEPARTMENT HAS
 THE NECESSARY RESOURCES,
 ORGANIZATIONS AND PROCESSES TO
 MAINTAIN A CLIENT SERVER APPLICATION.

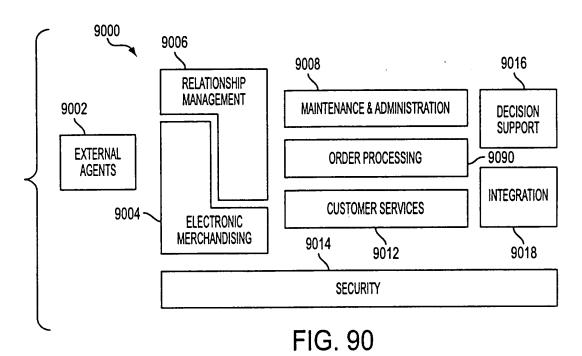
FIG. 88

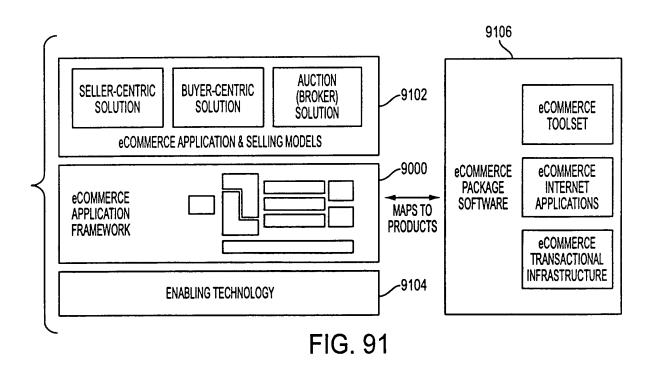


- E1. THE CLIENT CURRENTLY MAINTAINS AND OPERATES HOST BASED APPLICATIONS AND THE IT ORGANIZATION CONTAINS PERSONNEL FAMILIAR WITH THE DEVELOPMENT AND OPERATION OF THESE TYPES OF APPLICATIONS.
- G1. THE CLIENT HAS THE RESOURCES, ORGANIZATIONS AND PROCESSES NECESSARY FOR THE DEVELOPMENT AND OPERATION OF A HOST BASED APPLICATION.
- G2. RELIANCE UPON A SINGLE VENDOR (IBM) FOR TECHNOLOGY SOLUTIONS IS ACCEPTABLE.
- G3. CENTRALIZED APPLICATION AND DATA IS AN ACCEPTED STRATEGY.

FIG. 89









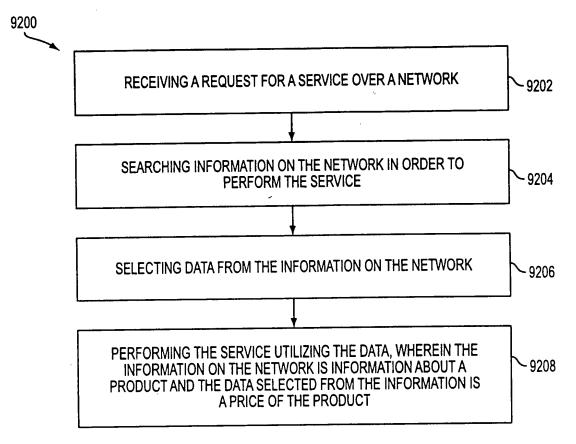


FIG. 92



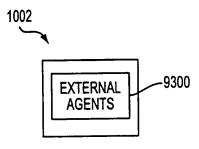


FIG. 93

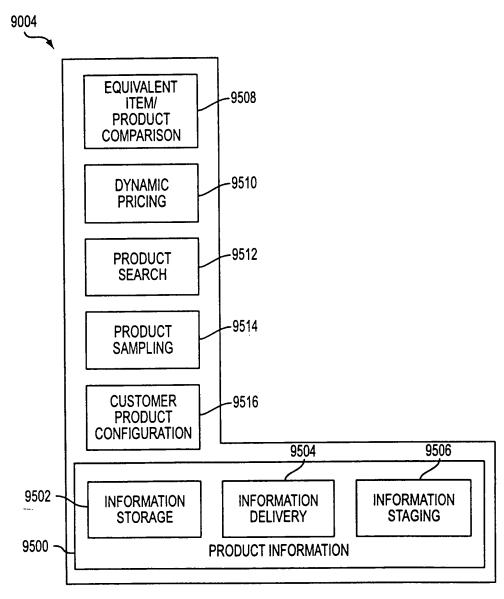


FIG. 95



DISPLAYING INFORMATION OF A PRODUCT INCLUDING AT LEAST ONE OF PRODUCT SPECIFICATIONS, GRAPHICS, VIDEO IMAGES, DIGITAL SAMPLES, AND INVENTORY AVAILABILITY

PROVIDING A SEARCH MECHANISM FOR SEARCHING FOR ITEMS SIMILAR TO THE PRODUCT OVER A NETWORK

9404

SUGGESTING THE ITEMS SIMILAR TO THE PRODUCT

9406

ALLOWING SELECTION OF THE PRODUCT AND THE ITEMS SIMILAR TO THE PRODUCT FOR PURCHASE OVER THE NETWORK

9408

FIG. 94



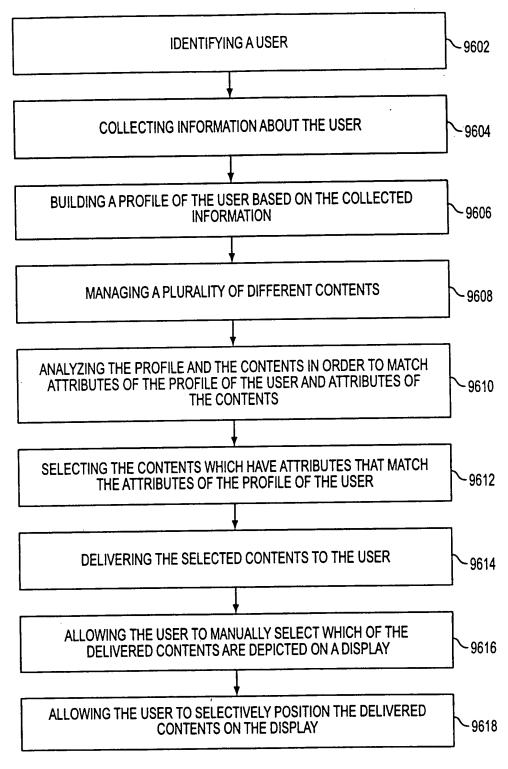
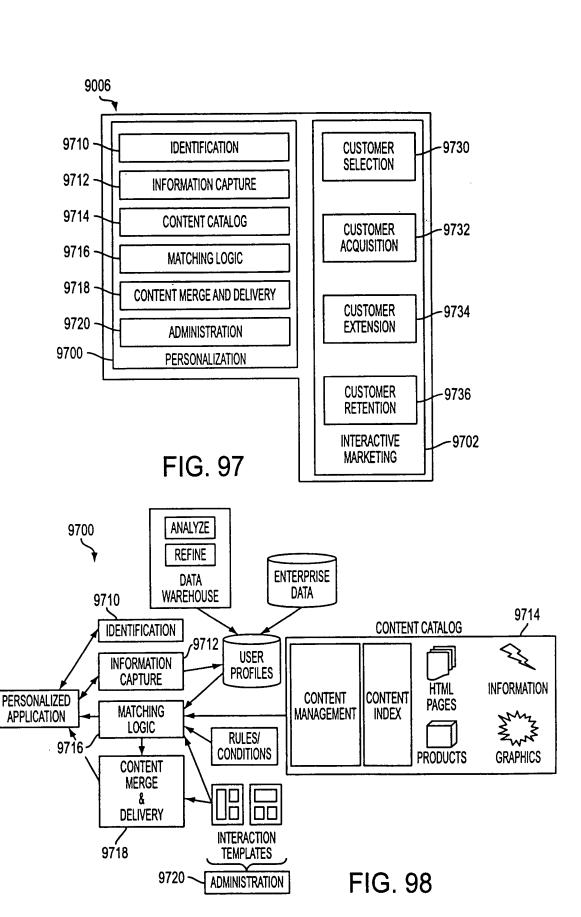


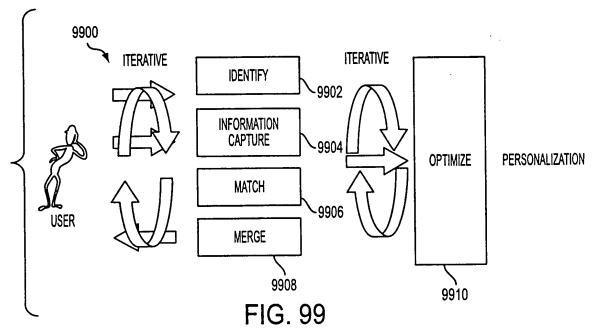
FIG. 96



USER







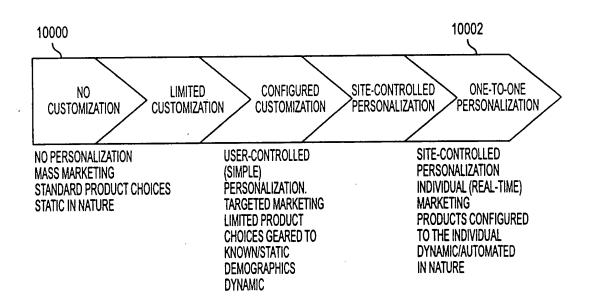


FIG. 100



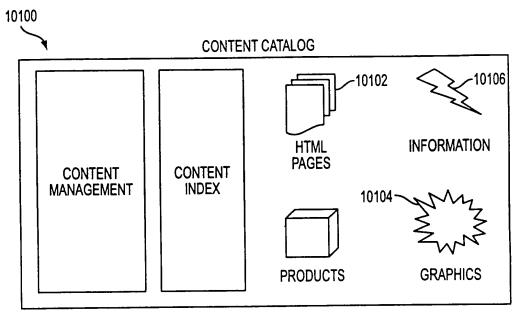
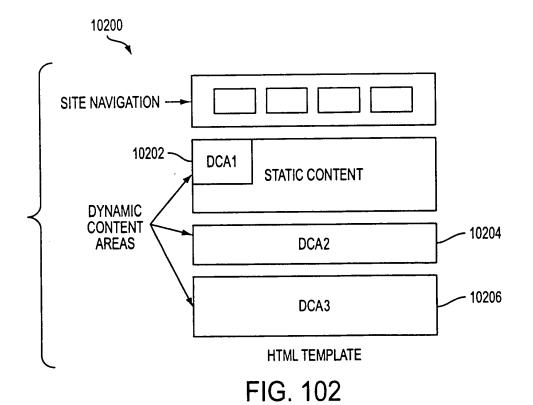
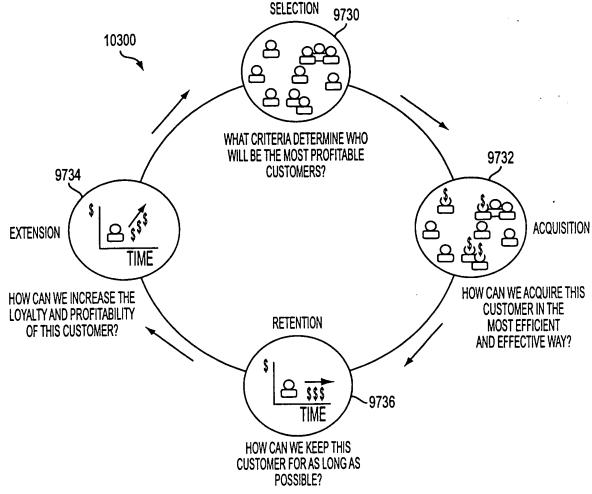


FIG. 101







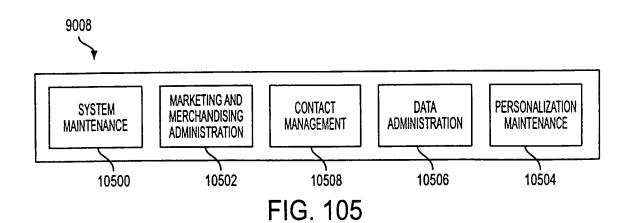


FIG. 103



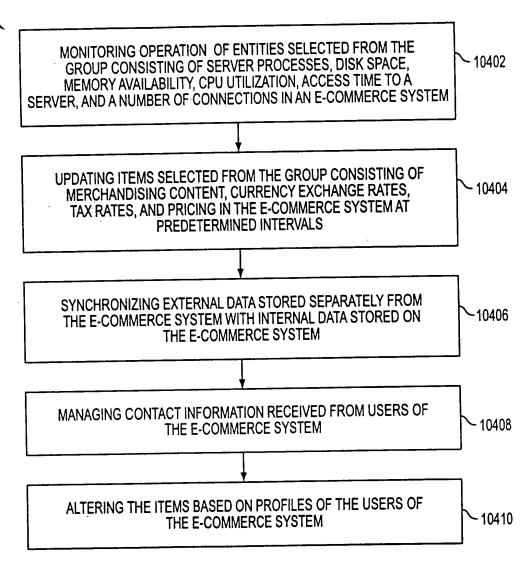


FIG. 104



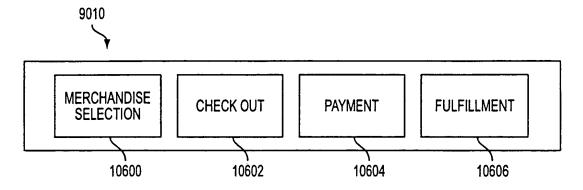


FIG. 106

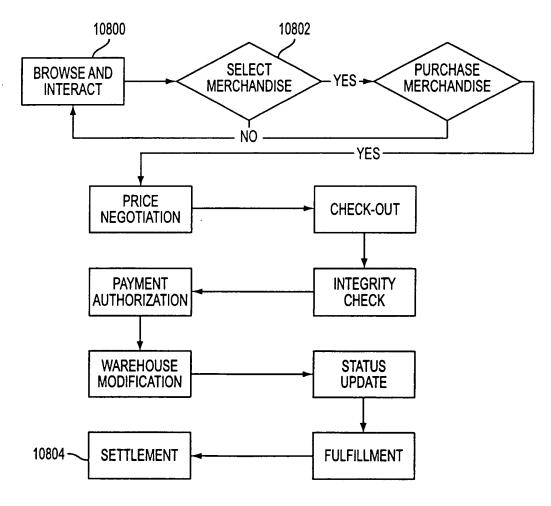


FIG. 108



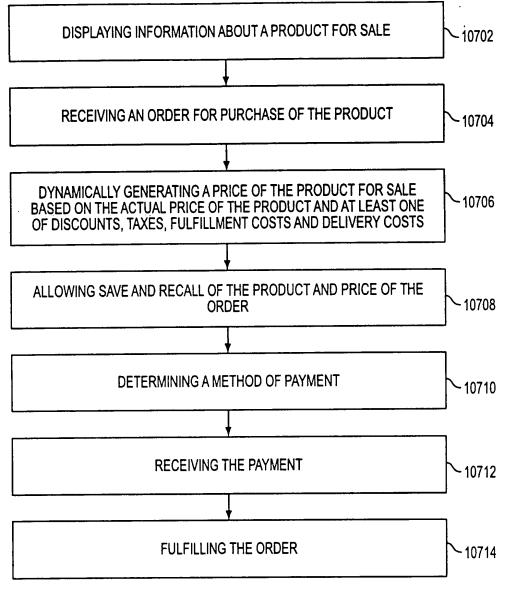


FIG. 107



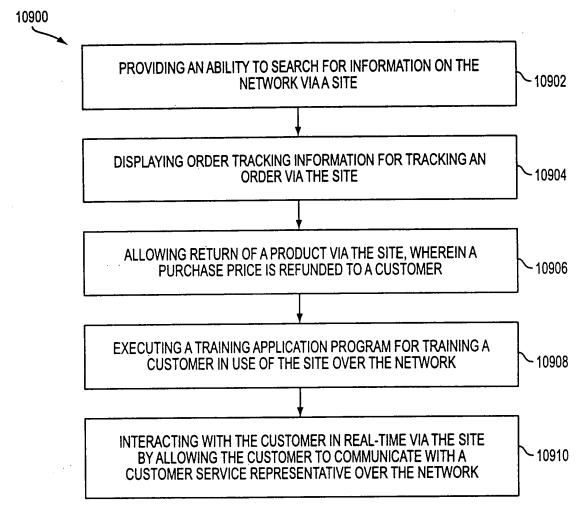
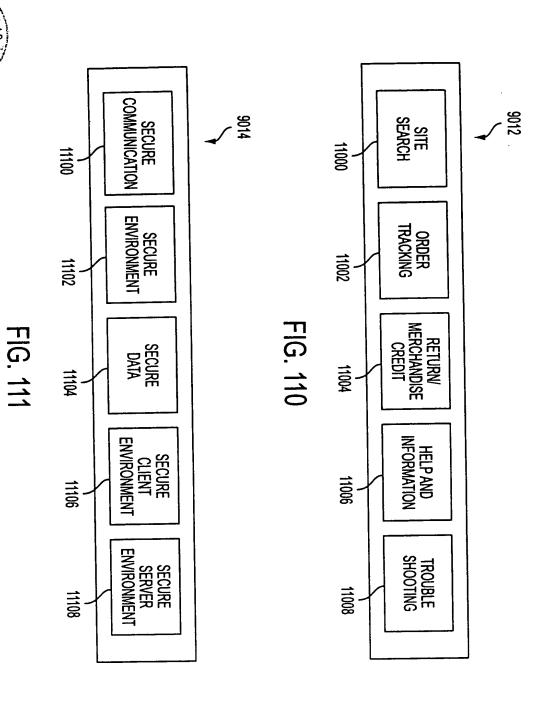


FIG. 109







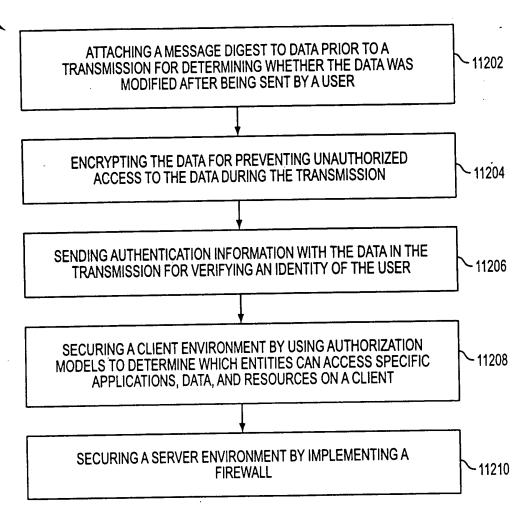


FIG. 112



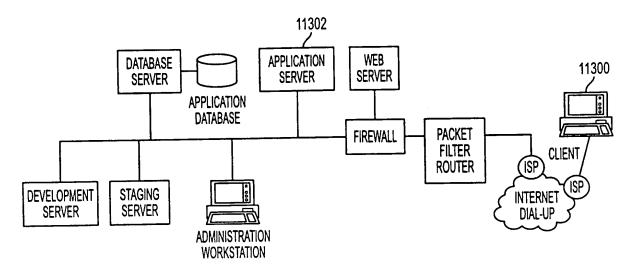


FIG. 113

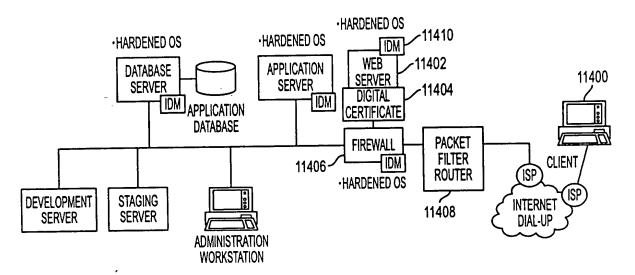
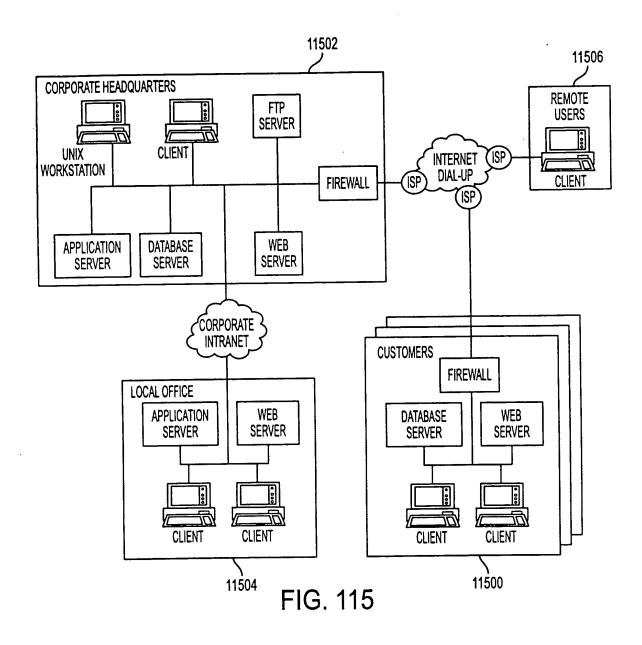
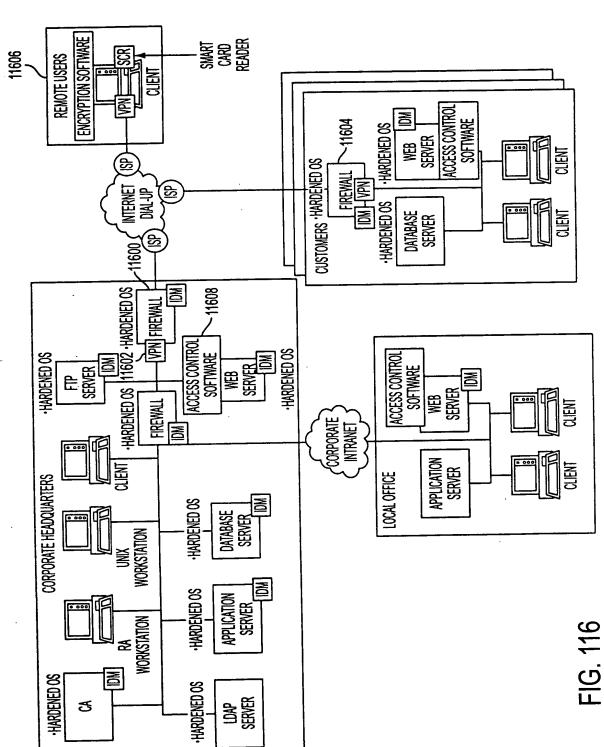


FIG. 114











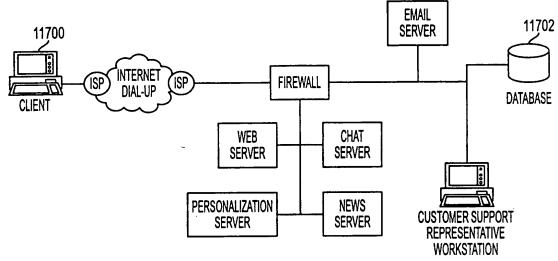


FIG. 117

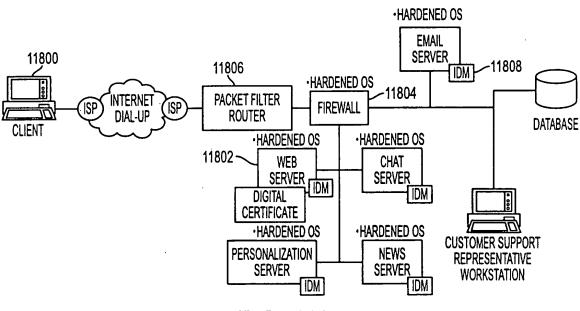
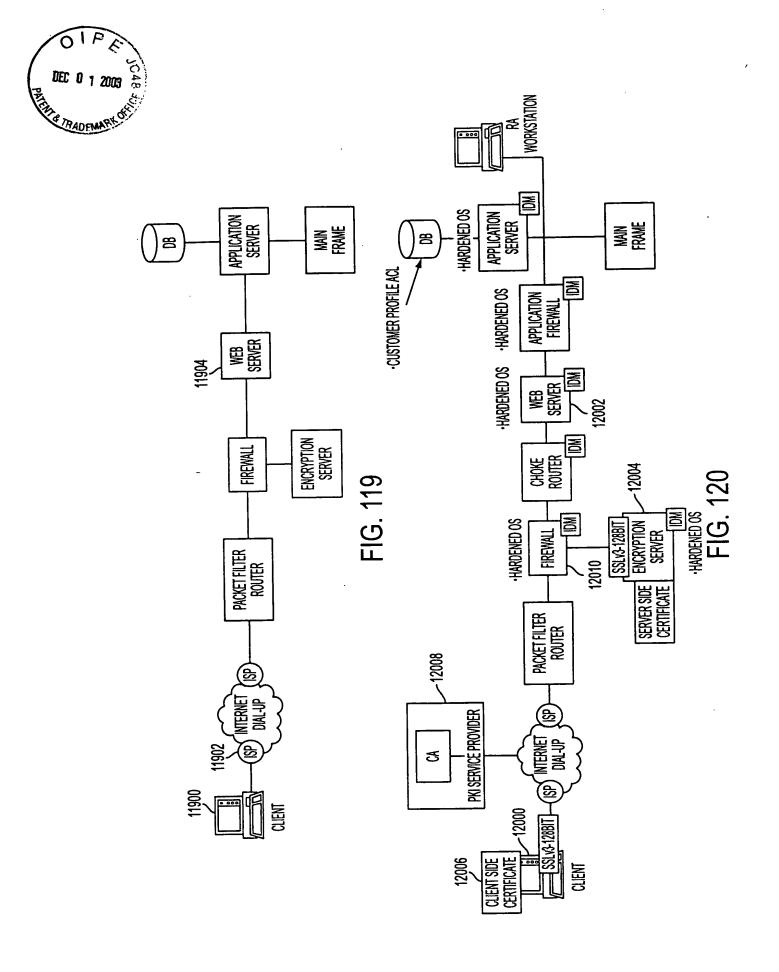


FIG. 118





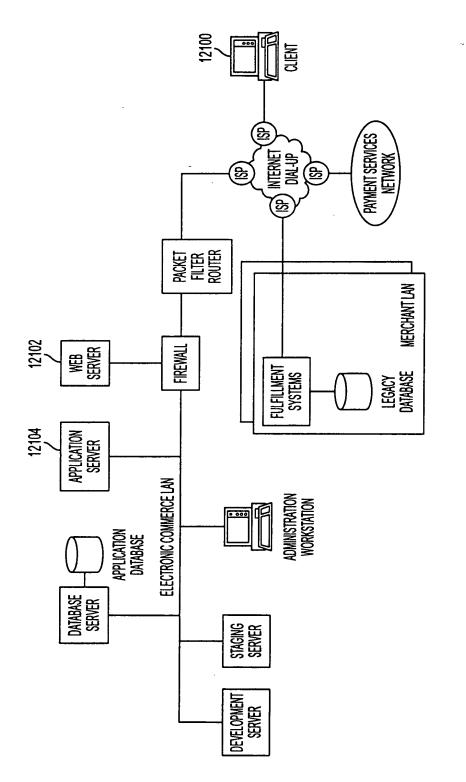


FIG. 121



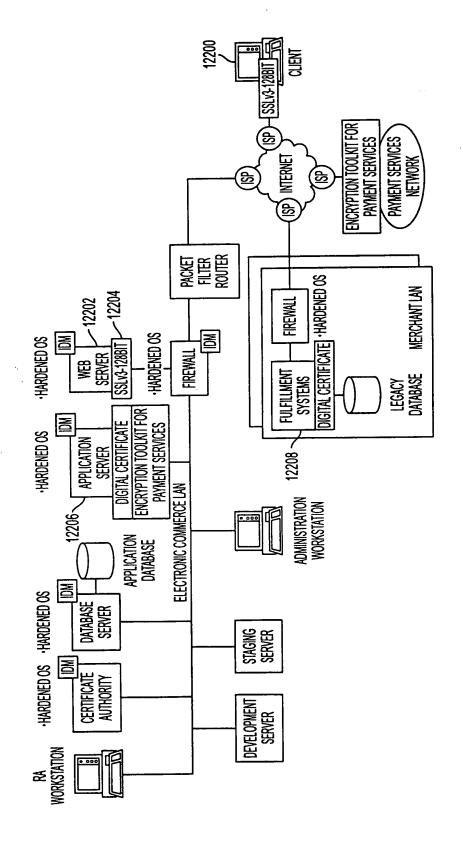


FIG. 122



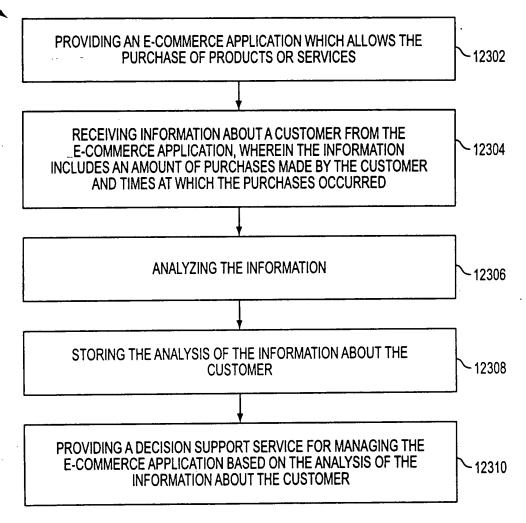
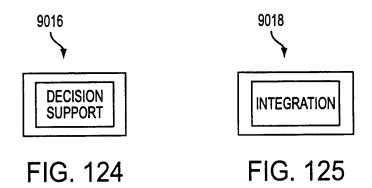


FIG. 123









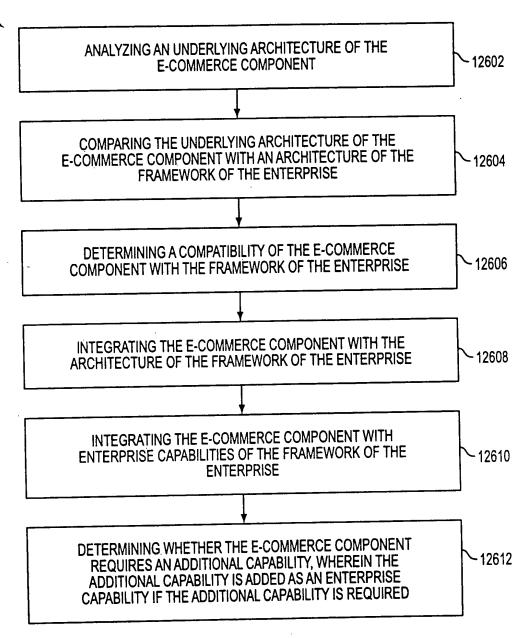
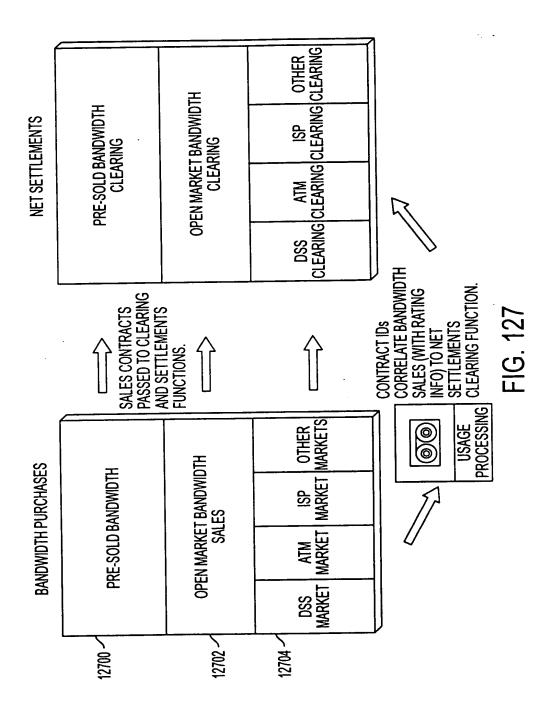


FIG. 126









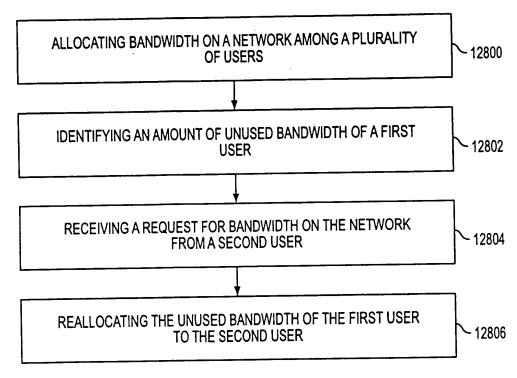


FIG. 128



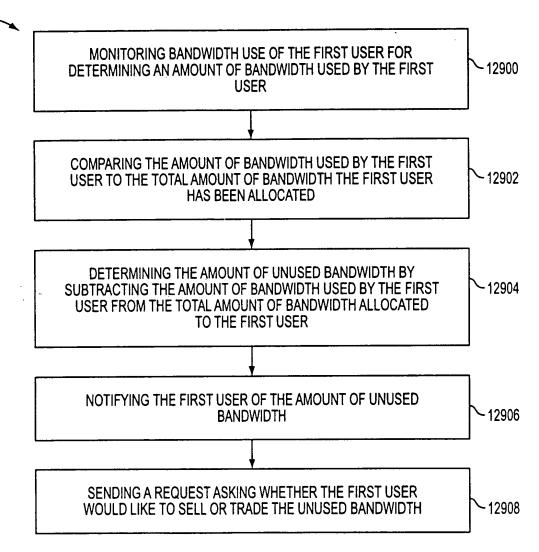


FIG. 129



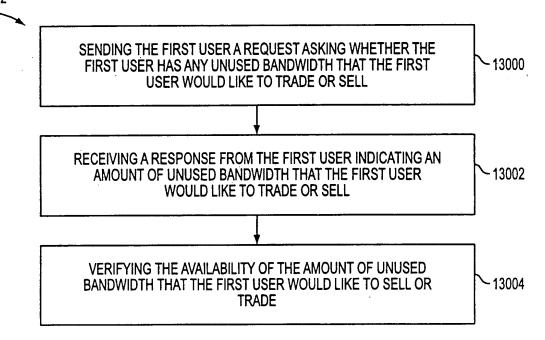


FIG. 130



RECEIVING NOTIFICATION OF AN AGREEMENT TO SELL UNUSED
BANDWIDTH FOR AN AMOUNT OF MONEY

13100

RECEIVING INFORMATION CONCERNING THE MANNER OF
PAYMENT

13102

VERIFYING THE TRANSFER OF THE AMOUNT OF MONEY

13104

REALLOCATING THE UNUSED BANDWIDTH OF THE FIRST USER
TO THE SECOND USER

13106

FIG. 131



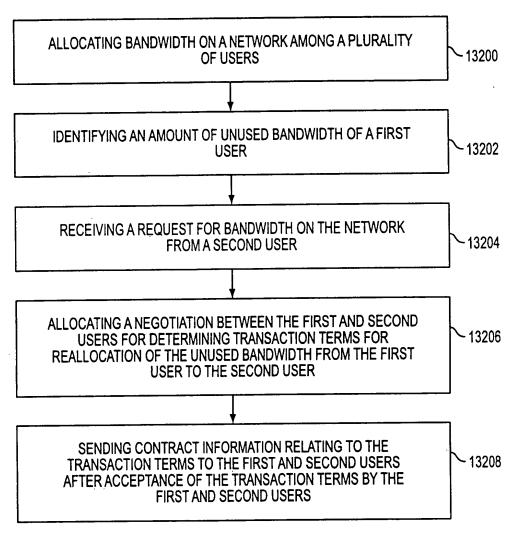
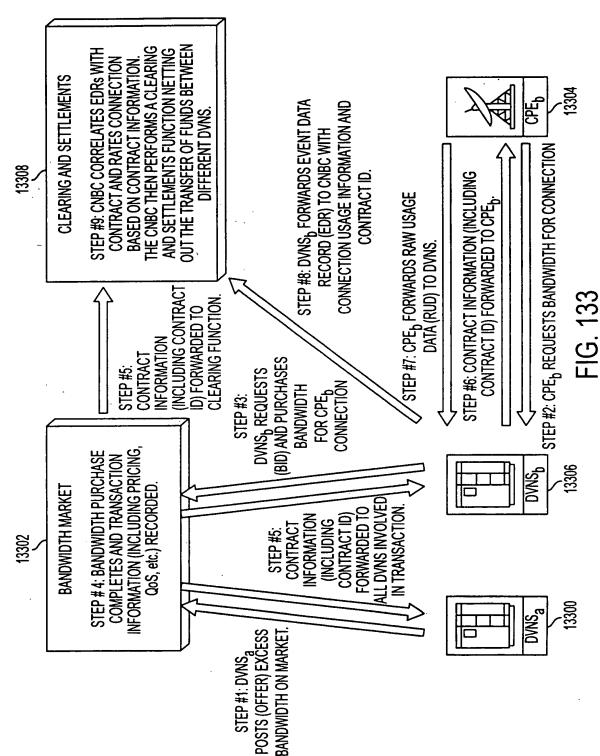


FIG. 132







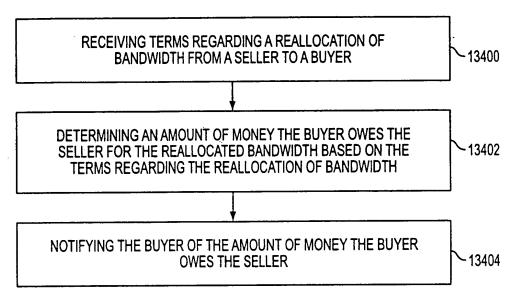
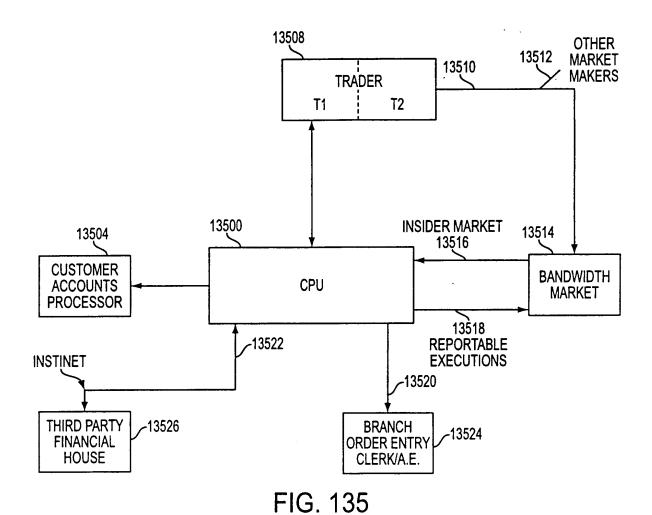
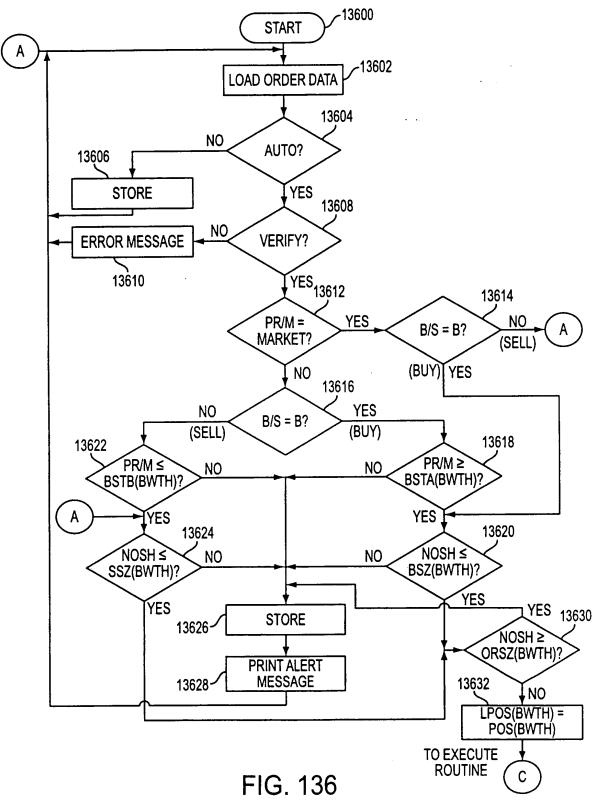


FIG. 134











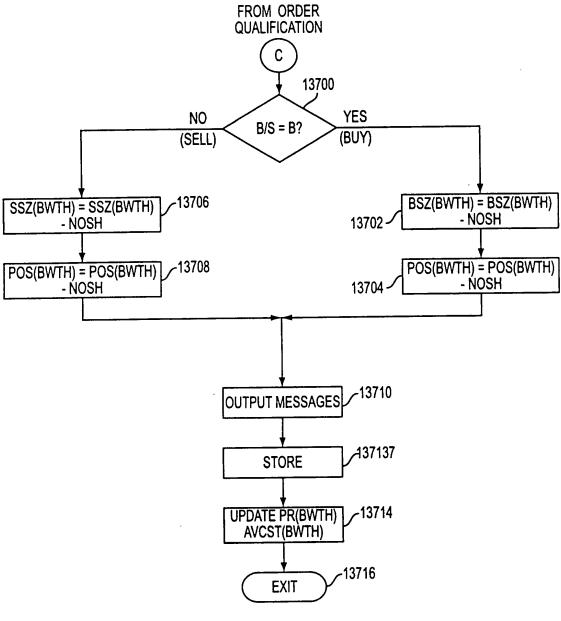


FIG. 137



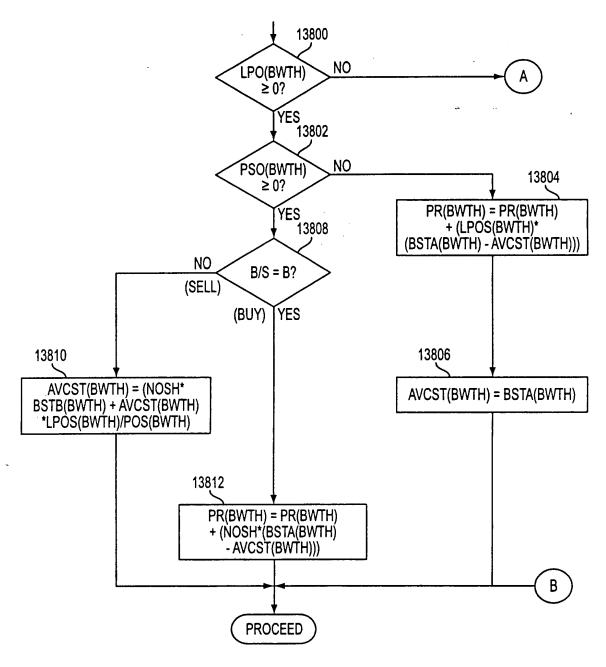


FIG. 138



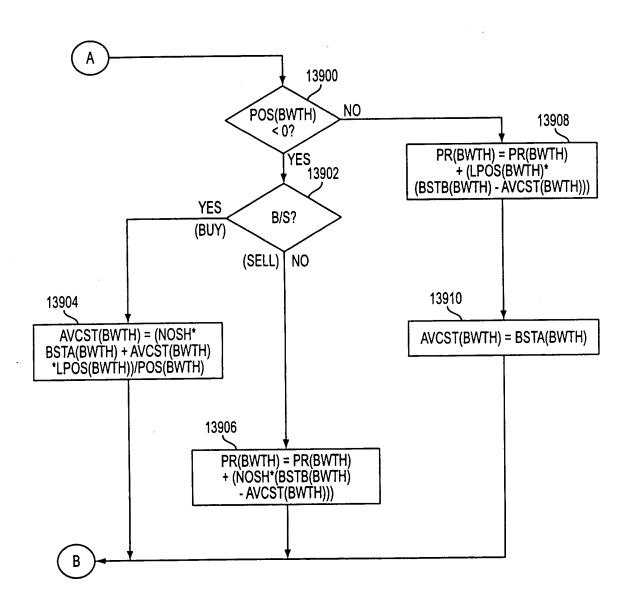


FIG. 139



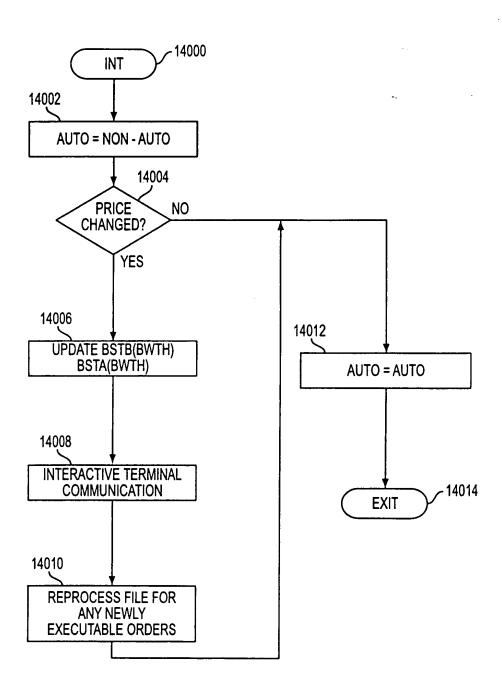


FIG. 140



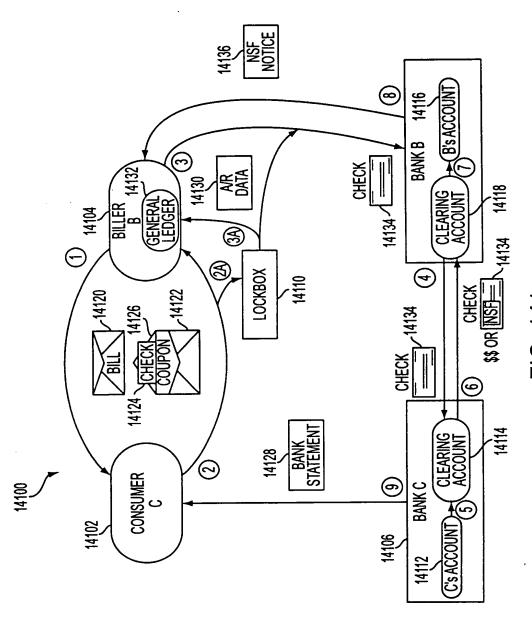
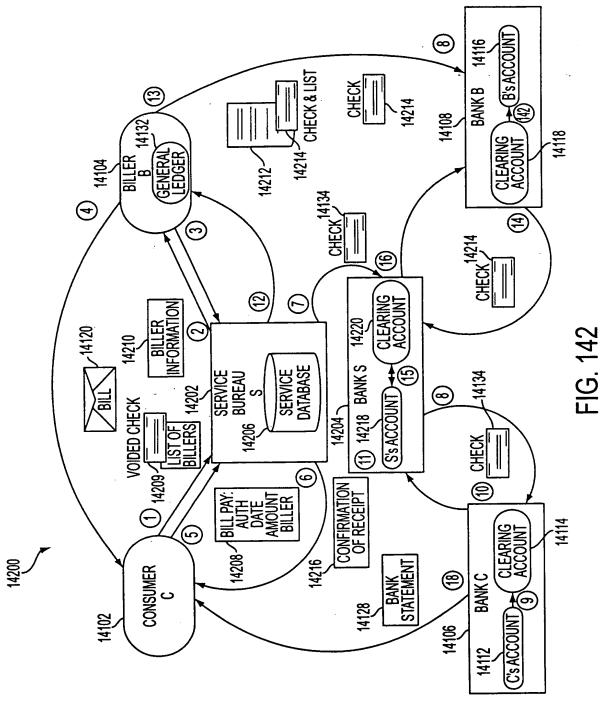


FIG. 141



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F

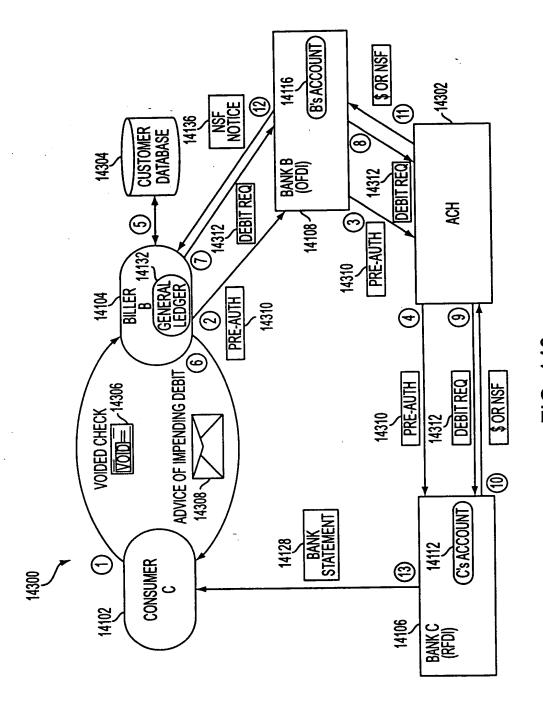


FIG. 143